TOSHIBA

FILE NO. 060-200115

SERVICE MANUAL

COLOUR TELEVISION

S1DS Chassis

29AZ8UE
29AZ8UA

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C).
   (See SETTING & ADJUSTING DATA on page 18)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE “X-RAY RADIATION PRECAUTION”, “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON PAGE 3 OF THIS MANUAL.

SET-UP ADJUSTMENT

■ The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :

1. Color Purity
2. Convergence
3. White Balance

Note: 1. The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.
2. Mounting position of the purity magnet assembly should fit to same position as old one because slightly difference to the position depend on a kind of tube.

* There are no adjustment of purity and convergence in some picture tube (Unified with purity magnet)

COLOR PURITY ADJUSTMENT

NOTE : Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

1. Demagnetize the picture tube and cabinet using a degaussing coil.
2. Set the brightness and contrast to maximum.
3. Use a green raster from among the built-in test signals.
4. Loosen the clamp screw holding the yoke and slide the yoke backward or forward to provide vertical green belt (zone) in the picture screen.
5. Remove the Rubber Wedges.
6. Rotate and spread the tabs of the purity magnet (See figure 2.) around the neck of the picture tube until the green belt is in the center of the screen. At the same time, enter the raster vertically.
7. Slowly move the yoke forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
8. Check the purity of the red and blue raster.

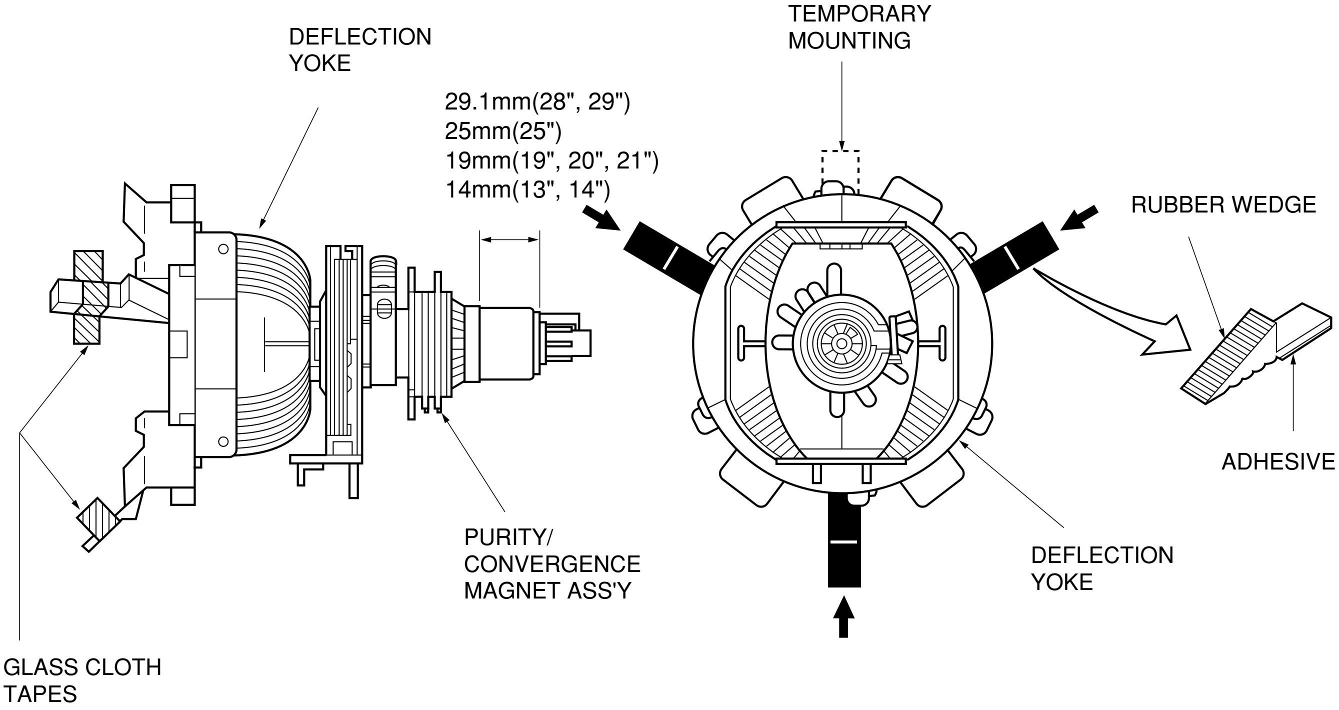


Figure 1.

CONVERGENCE ADJUSTMENTS

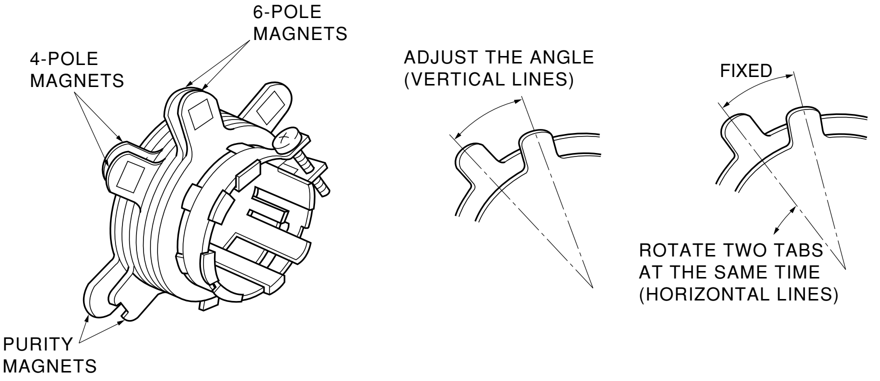
NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

■ CENTER CONVERGENCE ADJUSTMENT

1. Use the cross-dot pattern from among the built-in test signals.
2. Set the brightness and contrast for well defined pattern.
3. Adjust two tabs of the 4-Pole Magnets to change the angle between them (See figure 2.) and superimpose red and blue vertical lines in the center area of the picture screen.
4. Turn the both tabs at the same time keeping the angle constant to superimpose red and blue horizontal lines at the center of the screen.
5. Adjust two tabs of 6-Pole Magnets to superimpose red/blue line and green one. Adjusting the angle affects the vertical lines and rotating both magnets affects the horizontal lines.
6. Repeat adjustments 3, 4, 5 keeping in mind red, green and blue movement, because 4-Pole Magnets and 6-Pole Magnets have mutual interaction and make dot movement complex.

■ CIRCUMFERENCE CONVERGENCE ADJUSTMENT

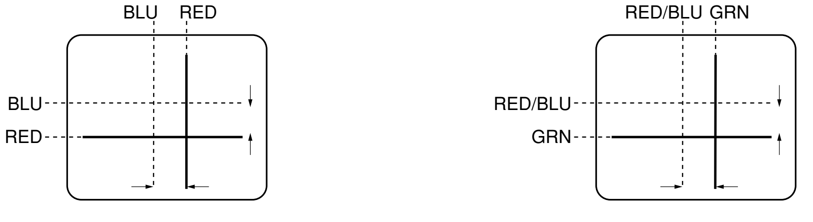
1. Loosen the clamping screw of deflection yoke slightly to allow the yoke to tilt.
2. Temporarily put a wedge as shown in figure 1. (Do not remove cover paper on adhesive part of the wedge.)
3. Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See figure 3.) Push the mounted wedge into the space between picture tube and the yoke to fix the yoke temporarily.
4. Put other wedge into bottom space and remove the cover paper to stick.
5. Tilt front of the yoke right or left to obtain better convergence in circumference. (See figure 3.)
6. Keep the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to fix the yoke.
7. Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
8. After fixing three wedges, recheck overall convergence. Tighten the screw firmly to fix the yoke and check the yoke is firm.
9. Stick three adhesive tapes on wedges as shown in figure 1.


6-POLE MAGNETS
4-POLE MAGNETS
PURITY MAGNETS
ADJUST THE ANGLE (VERTICAL LINES)
FIXED
ROTATE TWO TABS AT THE SAME TIME (HORIZONTAL LINES)

CONVERGENCE MAGNET ASSEMBLY

ADJUSTMENT OF MAGNETS

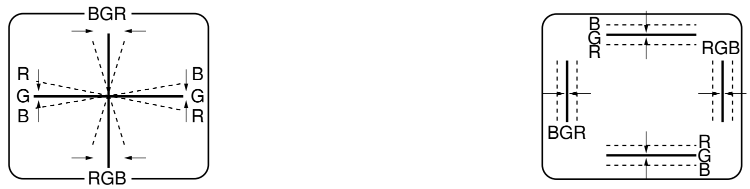
Figure 2.



4-POLE MAGNETS MOVEMENT

6-POLE MAGNETS MOVEMENT

Center Convergence by Convergence Magnets



INCLINE THE YOKE UP (OR DOWN)

INCLINE THE YOKE RIGHT (OR LEFT)

Circumference Convergence by DEF Yoke

Figure 3. Dot Movement Pattern

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE “X-RAY RADIATION PRECAUTION”, “SAFETY PRECAUTION” AND “PRODUCT SAFETY NOTICE” ON PAGE 3 OF SERVICE MANUAL.

SET-UP ADJUSTMENT (FOR FLAT TUBE)

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed. Perform the adjustments in order as follows :
  1. Color Purity
  2. Convergence
  3. White Balance

  Note: The PURITY/CONVERGENCE MAGNET assembly and rubber wedges need mechanical positioning. Refer to figure 1.

COLOR PURITY ADUSTMENT

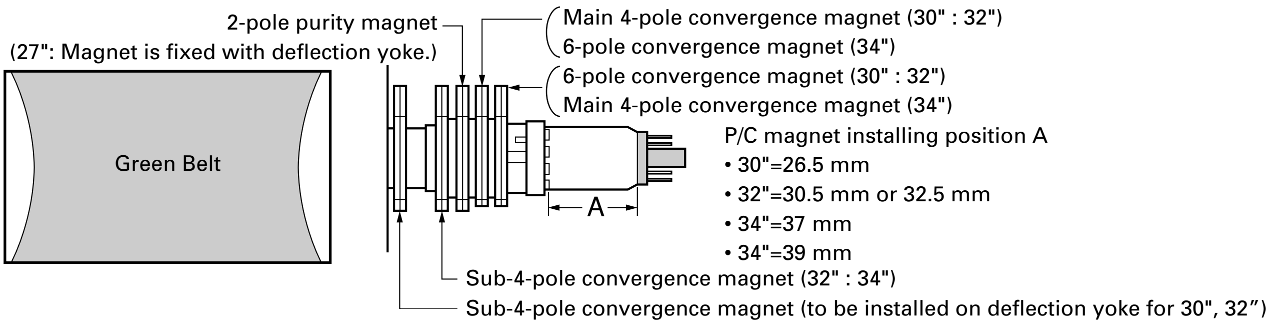
(1)Let the screen face in the installing direction or toward the east (when it is to be moved), bring up the service mode screen after demagnetizing (front, left, right, and top) with the degaussing coil, receive white signals by pressing the [TV/VIDEO] button, and then the receiver should be operated for more than 40 minutes.

(2)Perform rough adjustment of the central convergence with the P/C magnet according to the adjustment item.

(3)Receive built-in green signals, loosen set screws on the deflection yoke, remove rubber wedges, and shift the deflection yoke to toward front.

(4)Move alternately the two 2-pole magnets of the P/C magnets so that the green raster can come to the center of the screen.

Figure 1.

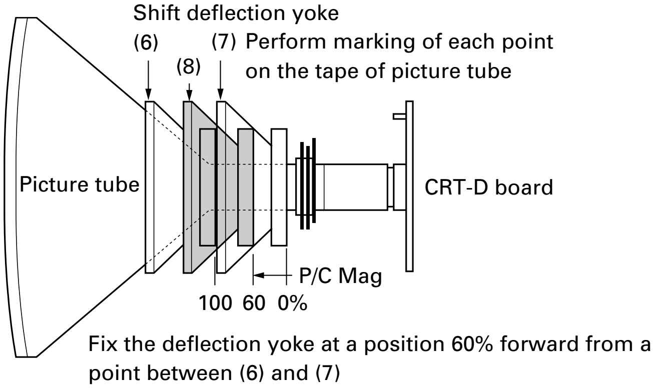

2-pole purity magnet
(27": Magnet is fixed with deflection yoke.)
Main 4-pole convergence magnet (30" : 32")
6-pole convergence magnet (34")
6-pole convergence magnet (30" : 32")
Main 4-pole convergence magnet (34")
Green Belt
P/C magnet installing position A
• 30"=26.5 mm
• 32"=30.5 mm or 32.5 mm
• 34"=37 mm
• 34"=39 mm
A
Sub-4-pole convergence magnet (32" : 34")
Sub-4-pole convergence magnet (to be installed on deflection yoke for 30", 32″)

(5)Receive built-in red and blue signals, check that there is no inclination of the single color raster toward one side, and if each color tilts to a great extent, make adjustment with the 2-pole magnet so that the 3 colors will come to the center evenly.

(6)Receive the green raster, shift the deflection yoke from a foremost position (hitting against the picture tube) to a backward position horizontally, stop the deflection yoke at a position where it begins to become a green raster, and perform accurate marking on the picture tube.

(7)Shift the deflection yoke further backward, and perform accurate marking at a position where the green raster begins to being luck.

(8)Fix the deflection yoke at a position 60% forward within the range marked in items (6) and (7) above.


Shift deflection yoke
(6)
(7) Perform marking of each point on the tape of picture tube
(8)
Picture tube
CRT-D board
P/C Mag
100 60 0%
Fix the deflection yoke at a position 60% forward from a point between (6) and (7)

CONVERGENCE ADJUSTMENTS

* Adjust the convergence magnet to get vest convergence in the the order to (1) ~ (5).

■ CENTER CONVERGENCE:

(1)Receive the white crosshatch or dot pattern from the service signal generator.

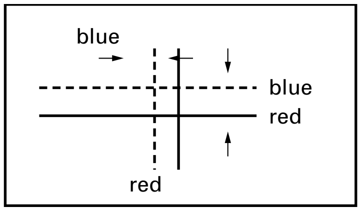
(2)Use the 2 pieces of main 4-pole magnets of P/C magnets, change the open angle, and align the red and blue vertical lines on the screen center.

(3)Freeze the open angle of the main 4-pole magnets, turn them simultaneously, and align the horizontal lines.

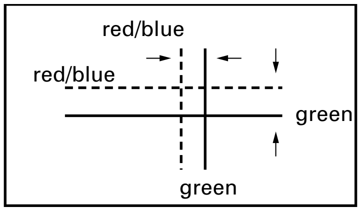
(4)Take the same steps for items (2) and (3) above and align red/blue with green on the screen center using two 6-pole magnets.

(5)Adjust the sub-4-pole magnets only in case there is any deviation of Xv bow-shaped convergence. (To be usually set at the initial position)

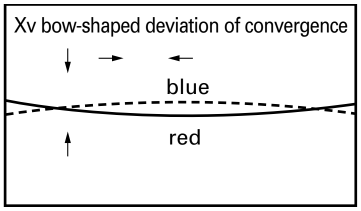
Align both sides with the sub-4-pole magnets and minimize the deviation of blue and red with the main 4-pole magnets.


blue
blue
red
red

Main 4-pole magnet


red/blue
red/blue
green
green

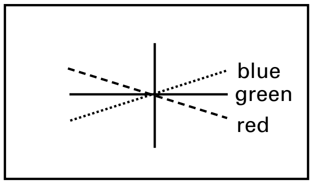
6-pole magnet

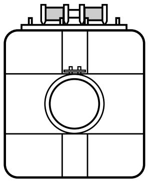

Xv bow-shaped deviation of convergence
blue
red

Sub-4-pole magnet

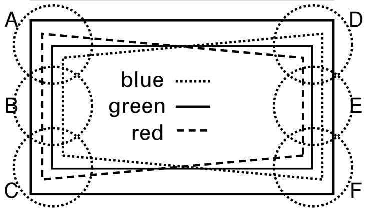
■ CIRCUMFERENCE CONVERGENCE:

* Perform correction in the following manner.

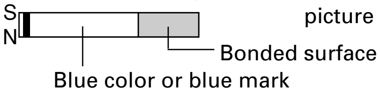

blue
green
red

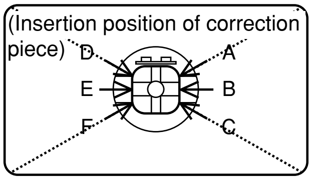


- Adjust coils and minimize deviation (The 27" unit has coils underneath it)

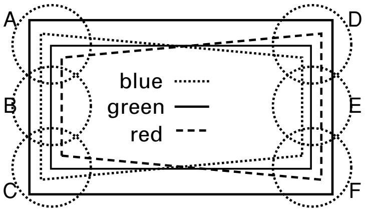

A
D
B
E
C
F
blue
green
red

(Parts code:23 948 274) TC-S

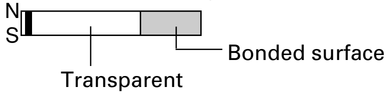

S
N
Bonded surface
Blue color or blue mark


(Insertion position of correction piece)
D
A
E
B
F
C

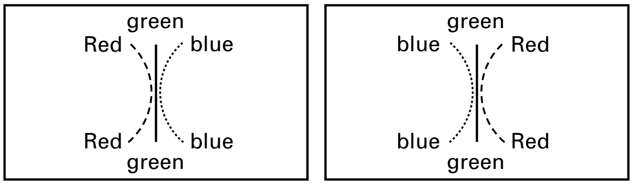
*Insert the correction piece between the picture tube and the deflection yoke.


A
D
B
E
C
F
blue
green
red

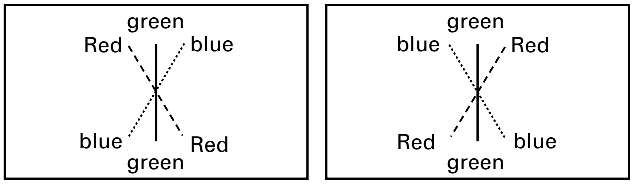
(Parts code:23 948 464)


N
S
Bonded surface
Transparent

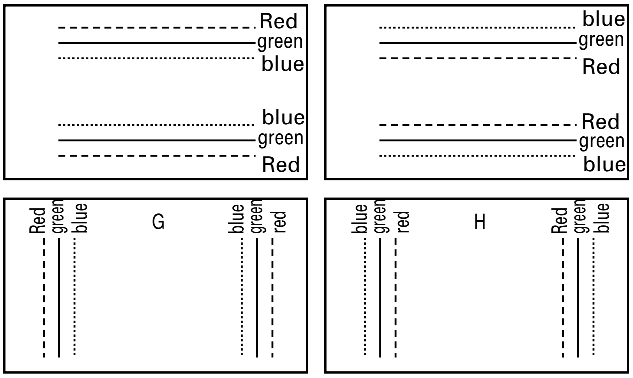
Adjust VR 1 and minimize the deviation of YH. *Only 27", 30" and 32".


green
Red
blue
Red
blue
green
green
blue
Red
blue
Red
green

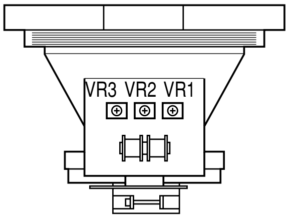
Adjust VR 2 (YHC) and minimize the deviation of YH.


green
Red
blue
blue
Red
green
green
blue
Red
Red
blue
green

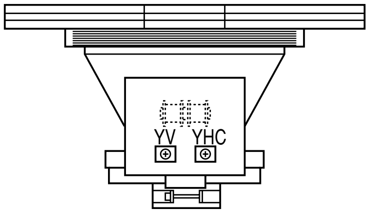
Adjust VR 3 (YV) and minimize the deviation of YV.

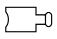

Red
green
blue
blue
green
Red
blue
green
Red
Red
green
blue
Red
green
blue
G
blue
green
red
blue
green
red
H
Red
green
blue

■ 30", 27", 32"

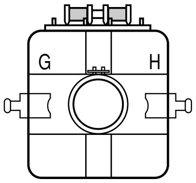


■ 34"





27" (Part No. 23 947 371)
32", 30" (Part No. 23 947 121)
34" (Part No. 23 993 080)



Perform correction by inserting the correction piece into the clearance of terminal board coils of the deflection yoke.

Note:

Perform insertion by turning the metal side to the terminal board side of the deflection yoke.

SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

2) Press 🔇 button again to keep pressing.

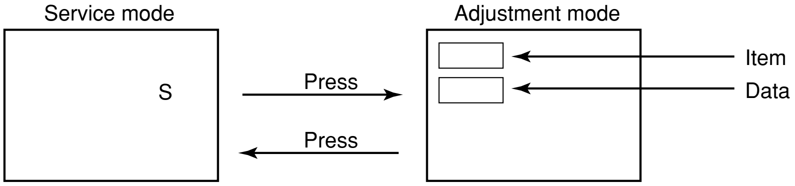
3) While pressing the 🔇 button, press MENU button on TV set.

(or SOUND MUTE)
🔇
Item
S
Data

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

A single horizontal line ON/OFF:	- / - - button (on Remote) or ⊸ button (on TV)	
Test signal selection :	⊸ button (on Remote)	
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)	
Change of the data value :	Volume ⊿ +/– (on TV or Remote)	
Adjustment menu mode ON/OFF :	MENU button (on TV)	
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)	
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)	
“RCUT” selection :	1 button	
“GCUT” selection :	2 button	
“BCUT” selection :	3 button	
“CNTX” (or “SCNT”) selection :	4 button	
“COLC” selection :	5 button	– – – – – Color thickness correction
“TNTC” selection :	6 button	note: Displayed differently as shown below, depending on the setting of the receiving color system. COLP (PAL) COLC (NTSC) COLS (SECAM)
Test audio signal ON/OFF (1kHz) :	8 button	
Self diagnostic display ON/OFF :	9 button	

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 18)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

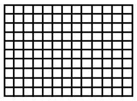
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊸ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

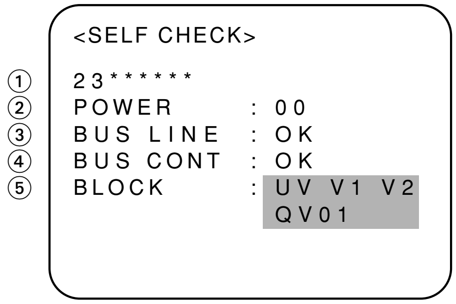
Signal off → NTSC signals (5 patterns)
↑ PAL signals (5 patterns) ←

Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ▨ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



```
    <SELF CHECK>

①   23******
②   POWER      : 00
③   BUS LINE   : OK
④   BUS CONT   : OK
⑤   BLOCK      : UV V1 V2
                 QV01
```

① Part number of microcomputer (QA01)

② Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.

③ BUS LINE CHECK ----“OK” is normal.
“SDA1-GND” ------------- SDA-GND short circuit.
“SCL1-GND” -------------- SCL-GND short circuit.
“SCL1-SDA1” ------------- SCL-SDA short circuit.

④ BUS CONT ----“OK” is normal.
When indication shows “Q ◯◯◯ NG”, the device with the number may possibly be damaged.

⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (⊖1)
V2 : VIDEO 2 input mode (⊖2)

Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

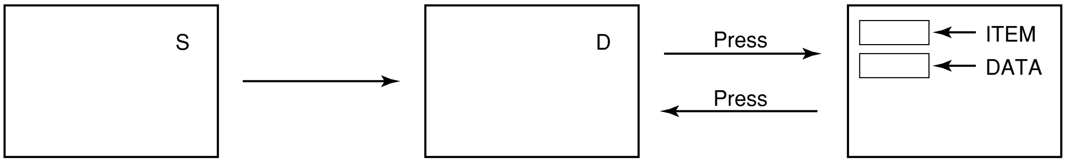
NOTE: Component which controls character display on screen is QT01 (TELETEXT IC.). If this display function fails to operate due to damage in QT01, self diagnosis procedure is as follows.
(1) In case that power indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that power indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ▨ are not usable to display in the SELF DIAGNOSTIC FUNCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode.
2) While pressing 🔇(or CALL) button on Remote and press MENU button on TV.
3) Press MENU button on TV.



(Design mode)

(Adjustment mode)

When QA02 is initialized, items “OPT0”, “OPT1”, “OPT2” and “OPT3” of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0”, “OPT1”, “OPT2” and “OPT3”.

2. SELECTING THE ADJUSTING ITEMS

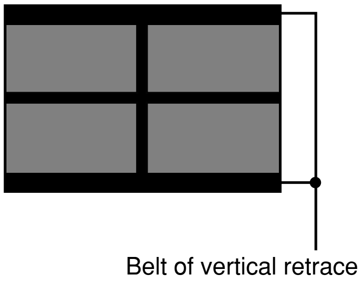
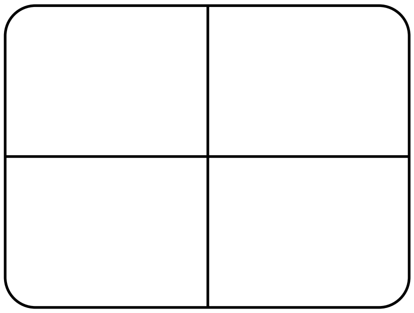
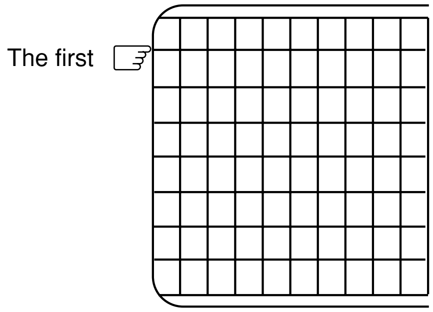
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3.
(▲ button for reverse order)

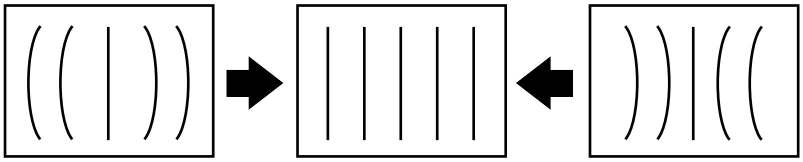
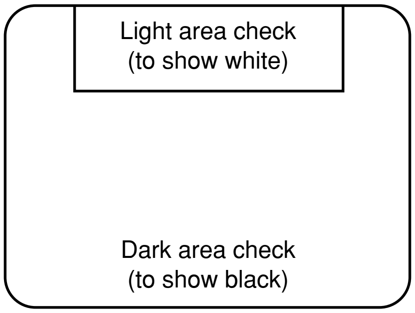
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 18)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENTS

ITEM	ADJUSTMENT PROCEDURE
FOCUS VR ADJ	1. Enter the service mode, then select any register item. 2. Press the TV/VIDEO button on the Remote until the black cross-bar pattern appears on the screen. 3. Adjust the FOCUS control (on T461) for well defined scanning lines on the picture screen.
SUB-BRIGHTNESS (BRTC) Note: Constrict the picture height until the vertical retrace line appears adjusting the item HIT (HEIGHT).	1. Set CONTRAST to minimum, and BRIGHTNESS to center by adjusting user controls. 2. Set the TV in service mode to get Black cross-bar of inside pattern. 3. Select BRTC (brightness correction), and adjust the ⊿ – /+ button to reduce the value so that white portion of inside pattern slightly light. 4. Adjust ⊿ – /+ button to increase the data value of BRTC, and set it just before the difference between the belt of vertical retrace and the border of black portion of inside pattern is visible. After that, return vertical height and contrast. 
HORIZONTAL POSITION ADJUSTMENT (HPOS) VERTICAL POSITION ADJUSTMENT (VPOS)	1. Set the TV in service mode, and get black cross-bar signal with VIDEO button on remote hand unit. 2. Select either HPOS (Horizontal picture phase) or VPOS (Vertical picture phase) with CHANNEL ▲, ▼ buttons, and adjust horizontal or vertical picture position in the center of screen with VOLUME ⊿ – /+ buttons. 
VERTICAL AMPLITUDE ADJUSTMENT (HIT)	1. Set the TV in service mode, and get black cross-hatch signal with VIDEO button on remote hand unit. 2. Select HIT (Vertical amplitude) with CHANNEL ▲, ▼ buttons, and adjust vertical amplitude with VOLUME ⊿ – /+ buttons so that vertical amplitude lacks a little. 3. Adjust vertical amplitude with VOLUME ⊿ – /+ buttons so that the first bar on cross-hatch signal touches edge of screen. 

ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the ⊿ – /+ button to get the picture so the left and rightedges of raster begins to lack. 3. Press the ⊿ – /+ button to advance the data by 7 steps. Note : Check the horizontal picture position is correct.
E-W PARABOLA (PARA)	1. Call up the adjustment mode display, then select the item **PARA**. 2. Press the -⊙ button on Remote until the cross-hatch pattern appears on the screen. 3. Press the ⊿ – /+ button to make vertical lines straight as shown below. 
WHITE BALANCE ADJUSTMENT ● CUTOFF ADJUSTMENT (RCUT) (GCUT) (BCUT) ● DRIVE ADJUSTMENT (GDRV) (BDRV)	1. Set Contrast to 40, and brightness to +20 by picture control. 2. Receive the Black and White pattern. 3. Select RCUT, GCUT and BCUT with CHANNEL ▲, ▼ buttons, to set individual values to Initial reference data, and to set GDRV and BDRV to Initial reference data with VOLUME ⊿ – /+ buttons (See page 18). 4. Press -/- - button on the remote control and rotate Screen VR to get one slight horizontal line on screen. Note: Every pressing of -/- - button provides Horizontal line picture and Normal picture alternately. 5. Press -/- - button to release horizontal line picture, and select the two other colors which did not light in the above step with CHANNEL ▲, ▼ buttons. Then tap VOLUME ⊿ – /+ buttons so that three colors slightly light in the same level. ※ To correct white balance in light area, select GDRV and BDRV with CHANNEL ▲, ▼ buttons to adjust. ※ To correct white balance in dark area, perform fine adjustment of RCUT, GCUT and BCUT.  Light area check (to show white) Dark area check (to show black)

S1DS Series (Reference factory adjustment)

Items	Settings	Input signals	Measuring methods	Adjusting methods	Measuring instruments	Adjusting methods	Adjusting
SCNT	Sub-contract	Contrast: MAX Bright: CNT Color: CNT Taint: CNT	Sub-bright signal (J2CH)	TP46R	Synchro	1 If SCNT is selected, Y signal is transmitted from the monitor output. 2 Adjust the amplitude from pedestal level to white level.	2.4V(P-P) ±0.2V(P-P)
BRTC	Sub-bright center	Contrast: MAX Bright: CNT Color: MIN	Sub-bright signal (J2CH)	Screen adjustment	Screen adjustment	1 Adjust the number of collapsed black lines of the sub-bright signal. 2 Adjust after adjusting W/B, SCNT.	4 lines± 1.5 lines
COLC	Sub color NTSC	Contrast: MAX Bright: CNT Color: CNT Taint: CNT Y mute: ON	Sub-bright signal (J 2CH)	TP46B	Synchro	1 If COLC is selected, B-Y signals are transmitted from the monitor output. 2 Adjust the amplitude of the color bar output. 3 Adjust after adjusting SCNT, TNTC.	1.40V(P-P) ±0.2V(P-P) * P-P value of upper half
COLS	Sub-color SECAM	Contrast: MAX Bright: CNT Color: CNT Taint: CNT Y mute: ON	SECAM Color bar (E 2ch)	TP46B	Synchro	1 If COLS is selected, B-Y signals are transmitted from the monitor output. 2 Adjust the amplitude of the color bar. 3 Adjust after adjusting SCNT.	1.90V(P-P) ±0.2(P-P) * P-P value of upper half
R CUT G CUT B CUT Screen VR	R cutoff G cutoff B cutoff	Set to R CUT: 40H G CUT: 40H B CUT: 40H Enter horizontal straight-line mode		Screen adjustment	Screen judgment	1 Carry out the setting as the condition mentioned on the left. 2 Gradually increase the screen VR and stop it at a position where any line of R, G, or B begins to emit light slightly. 3 This position right here will be set for screen VR adjustment. 4 Gradually increase remaining two screen VRs – except the line that emitted slight light as mentioned in item 2 above – and stop at positions where respective lines begin to emit light slightly. (Make adjustment until the screen becomes virtually white.)	
R CUT G CUT B CUT GDRV BDRV	White balance R cutoff G cutoff B cutoff G drive B drive	Contrast: MAX Bright: CNT Color: MIN Set to GDRV: 40H BDRV: 40H	Raster signal without color burst	C·P·T	W/B checker	1 Carry out RCUT, GCUT, BCUT, and Screen VR after checking above-mentioned items 2 Carry out the setting of GDRV and BDRV like the condition mentioned on the left 3 Use a checker that can change modulation factor to adjust brightness	HIGH (103cd/m^2) 11500k + 0.0075uv DARK (17cd/m^2) 10500k + 0.0105uv * The range of adjustment is to remain the same as what has been set until now.

Adjusting parts	Input/output points	Adjusting signals	Adjusting conditions and procedures
Horizontal amplitude adjustment Adjustment on the corrected number of pin distortion Adjustment on the corrected number of trapezoidal distortion	Visual adjustment by patterns (Bus control)	WG Phillips pattern Do not use the Phillips pattern of FRANCE SECAM.	1 Conditions: These are to be Cont max, Bright cent, Color cent, and DFS modes after adjusting V.HEIGHT, VERT POSITION, and H.CENT. 2 Adjusting procedures a. Turn the geomagnetism correction circuit OFF (cursor = 00). b. Adjust the horizontal amplitude by Sub Address WID. Make sure that the left and right white flags are hidden to the utmost possible limit. c. Turn the left and right vertical bars into straight lines by Sub Address PARA. d. Correct the trapezoid distortion by Sub Address TRAP. e. Adjust Sub Address WID again.
H. CENT	Visual adjustment by patterns (Bus control)	WG Phillips pattern Do not use the Phillips pattern of FRANCE SECAM.	1 Conditions: Cont max, Bright cent, Color cent, and DFS modes 2 Adjusting procedures a Turn the geomagnetism correction circuit OFF (cursor = 00). b Adjust Sub Address HPOS and adjust the screen center. (Minimize D-C in the CRT adjusting magnetic field)
HEIGHT VERT.POSITION	Visual adjustment by patterns (Bus control)	WG Phillips pattern Do not use the Phillips pattern of FRANCE SECAM.	1. Conditions: Cont max, Bright cent, Color cent, and DFS modes 2. Adjusting procedures a. Turn the geomagnetism correction circuit OFF (cursor = 00). b. Adjust the V. Position to the center by Sub Address VPOS so that the up-and-down positions of the Phillips Pattern's circle will come to the center. c. Adjust HEIGHT by Sub Address HIT so that the up-and-down flags of Phillips Pattern can be hidden to the utmost possible limit. d. Adjustment is to be made facing south or north. If it is impossible to do so, offset the adjustment by geomagnetism.
V901	C.CRT adjusting magnetic field		Magnetic field UC/UM(BV=35µT) UH/UE (BV=0µT)(BH=40µT) UA (BV=–50µT)(BH=25µT) UR (BV=45µT)(BH=20µT) UG (BV=30µT)(BH=35µT) UK (BV=35µT)(BH=30µT)

THE PIP SCREEN SUB-BRIGHT ADJUSTMENTS

[DATA ADJUSTMENTS]

1 Adjustment of PIP screen sub-bright

Condition) After the completion of main screen adjustments
(1) Let both the main and PIP screens receive intra-company signal.
(2) Select the adjustment item [MWBRC] and adjust the number of collapsed black lines.
Standard) ± 1.5 lines

<Reference data>

2 PIP screen color difference DC offset adjustments (White balance adjustment)

Condition) After adjusting PIP screen sub-bright
Adjustments) (1) Let both the main and PIP screens receive all black signals.
(2) Observe UM01#31 (R-Y out).
(3) Select the adjustment item [MWBR] and adjust the amount of DC offset.
(4) Observe UM01#30 (R-Y out).
(5) Select the adjustment item [MWBB] and adjust the amount of DC offset.
Standard) 0±10mV

CIRCUIT CHECK

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST controls to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

Refer to table-1 for high voltage (B).
(See SETTING & ADJUSTING DATA on page 18)

4. Vary the BRIGHTNESS control to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		29"
HIGH VOLTAGE AT ZERO BEAM:	(A)	32.8 kV
MAX HIGH VOLTAGE:	(B)	33.0 kV
AC VOLTAGE	(C)	110~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Name of adjustment	Preset	Data
RCUT	R CUTOFF (B/W)	40H	←
GCUT	G CUTOFF (B/W)	40H	←
BCUT	B CUTOFF (B/W)	40H	←
GDRV	G DRIVE	35H	←
BDRV	B DRIVE	35H	←
CNTX	SUB CONTRAST MAX (4:3 MODE)	7FH	←
BRTC	SUB BRIGHT CEN	80H	←
COLC	SUB COLOR CEN NTSC	45H	←
TNTC	SUB TINT CEN	20H	←
COLP	SUB COLOR CEN PAL	01H	←
COLS	SUB COLOR CEN SECAM	45H	←
SCNT	SUB CONTRAST	0CH	←
VOLS	VOL SCART	75H	←
FVOL	FM VOL PRE SCALE	15H	←
NVOL	NICAM VOL PRE SCALE	3CH	←
NICL	NICAM THRESHOLD LEVEL	03H	←
NICH	NICAM THRESHOLD LEVEL	0AH	←
IDL	IGR THRESHOLD LEVEL	90H	←

Item	Name of adjustment	Preset	Data
IDH	IGR THRESHOLD LEVEL	A0H	←
EVOL	EXT PRE. VOLUME	00H	←
HPOS	50Hz H-POSITION	2CH	←
VPOS	V-POSITION HEIGHT	AEH	←
HIT	HEIGHT	61H	←
VLIN	V-LINEARITY	13H	←
VSC	V-S CORRECTION	15H	←
VPS	V-SHIFT	06H	←
VCP	V-COMPENSATION	05H	←
WID	PICTURE WIDTH	1EH	←
PARA	E-W PARABOLA	1CH	←
CNR	E-W CORNER	09H	←
TRAP	TRAPEZIUM	1AH	←
HCP	H-COMPENSATION	01H	←
VFC	V-F CORRECTION	0FH	←
SRY	SECAM R-Y	07H	07H
SBY	SECAM-B-Y	04H	04H

Table-2

【 DESIGN MODE 】

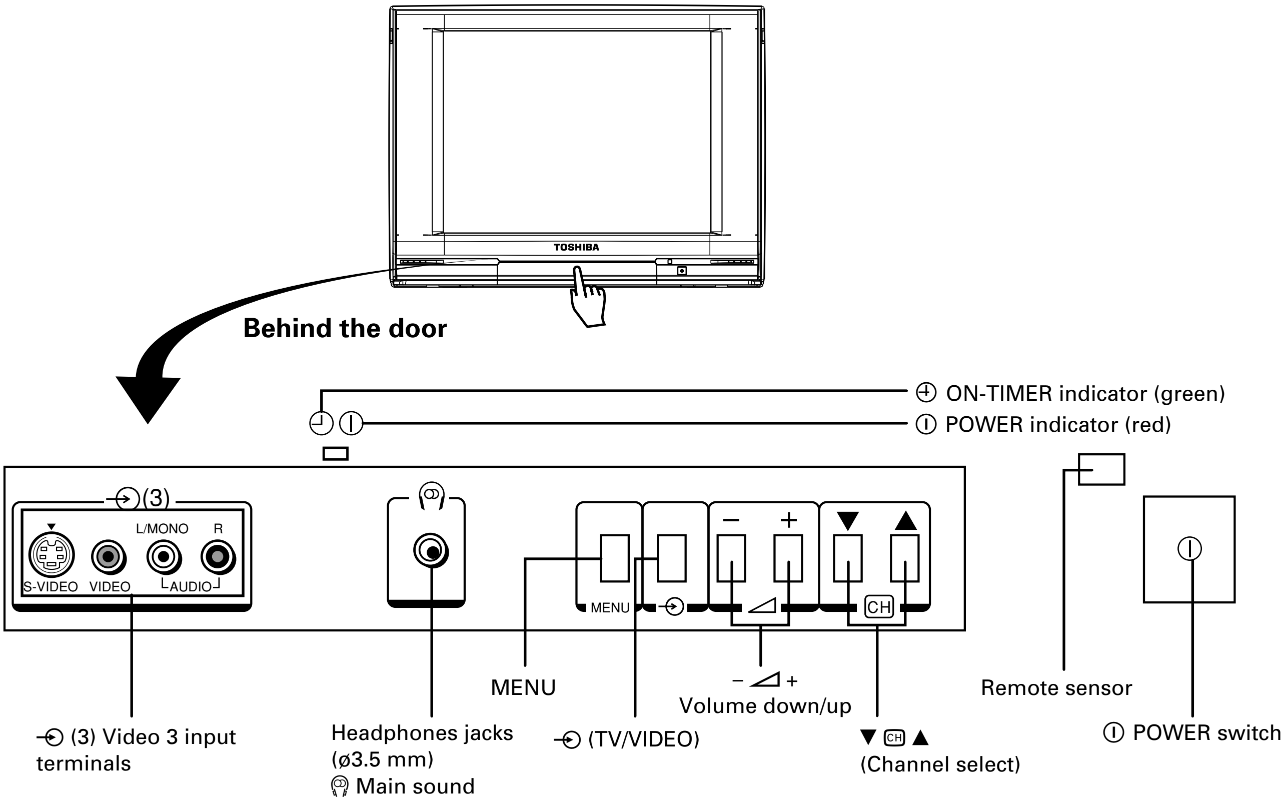
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	Data	Remarks
OPT0	OPTION 0	00H	00H	
OPT1	OPTION 1	C2H	C2H	
OPT2	OPTION 2	04H	04H	
OPT3	OPTION 3	DFH	DFH	
OPT4	OPTION 4	63H	63H	

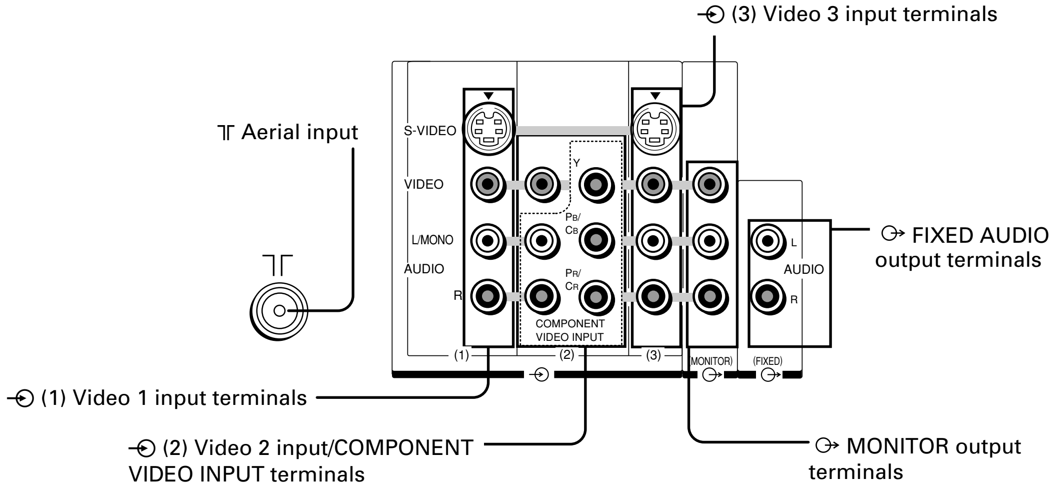
Table-3

LOCATION OF CONTROLS

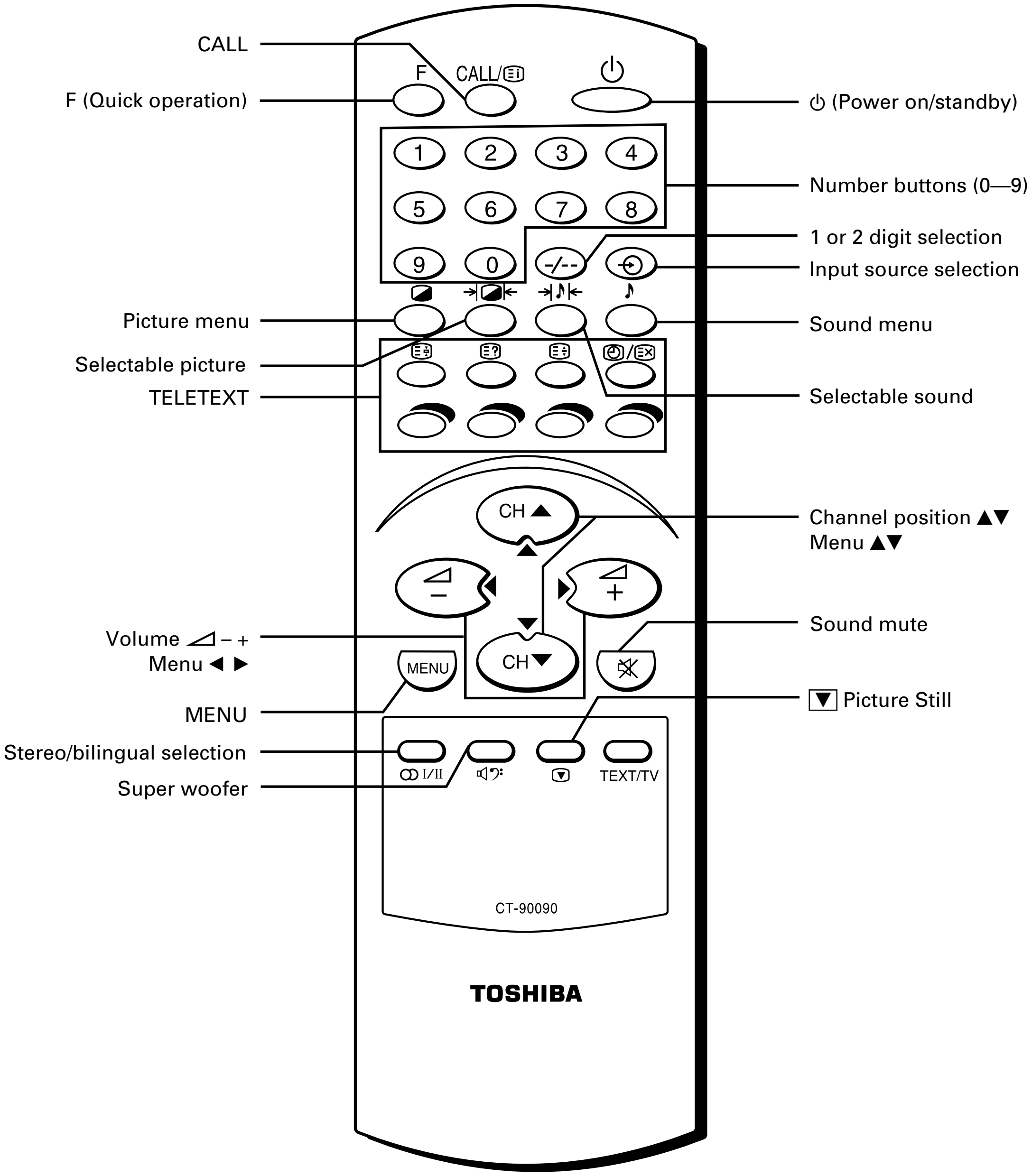
Front


TOSHIBA
Behind the door
ON-TIMER indicator (green)
POWER indicator (red)
(3)
L/MONO
R
S-VIDEO
VIDEO
AUDIO
MENU
CH
MENU
– ⊿ +
Volume down/up
Remote sensor
(3) Video 3 input terminals
Headphones jacks (ø3.5 mm)
Main sound
(TV/VIDEO)
▼ CH ▲
(Channel select)
POWER switch

Back


(3) Video 3 input terminals
Aerial input
S-VIDEO
VIDEO
L/MONO
AUDIO
R
Y
PB/CB
PR/CR
COMPONENT VIDEO INPUT
(1)
(2)
(3)
(MONITOR)
(FIXED)
L
AUDIO
R
FIXED AUDIO output terminals
(1) Video 1 input terminals
(2) Video 2 input/COMPONENT VIDEO INPUT terminals
MONITOR output terminals

REMOTE CONTROLLER


CALL
F (Quick operation)
Picture menu
Selectable picture
TELETEXT
Volume ⊿ – +
Menu ◀ ▶
MENU
Stereo/bilingual selection
Super woofer
⏻ (Power on/standby)
Number buttons (0—9)
1 or 2 digit selection
Input source selection
Sound menu
Selectable sound
Channel position ▲▼
Menu ▲▼
Sound mute
▼ Picture Still
F
CALL/
1
2
3
4
5
6
7
8
9
0
-/--
CH ▲
CH ▼
MENU
I/II
TEXT/TV
CT-90090
TOSHIBA

PROGRAMMING CHANNEL MEMORY

- First, use the ASM (Automatic Search Memory) function to preset all the active channels in your area automatically. Then, arrange the preset channels with the MANUAL SEARCH (SEARCH or >>>), MFT (Manual Fine Tuning) and SKIP functions so that you can tune into only desired channels.
- This section shows how to tune in channels using mainly the Remote Controller. You can also perform the system select, ASM, MANUAL SEARCH (SEARCH or >>>), MFT and SKIP operations using the buttons on the TV set.

To preset channels (ASM)

ASM (Automatic Search Memory)

1. Select the first position number you want the ASM to start presetting from with the **CH** ▼/▲ buttons or the direct select buttons.
2. Press the **MENU** button repeatedly to call up the SET UP menu on the screen.
3. Confirm that "COLOR" is set to "AUTO" and "SOUND" is set to proper system.
   If not, press the **MENU** ▼/▲ (or CH ▼/▲) buttons to move the cursor (▶) to "COLOR" or "SOUND" then press the **MENU** –/+ (or⊿ –/+) buttons to select the proper systems.
4. Press the **MENU** ▼/▲ (or CH ▼/▲) buttons to move the cursor (▶) to "ASM".
5. Press the **MENU** + (or⊿ +) button to start the ASM. All active channels will be preset automatically.
   When presetting is complete, the initial position number will reappear.

After presetting
Check the preset channels by pressing the **CH** ▼/▲ buttons.

- If the picture or sound of a certain channel is not good, re-tune the channel using the ASM, MANUAL SEARCH (SEARCH or >>>) or MFT function.
- If the colour of a certain channel is abnormal, the automatic colour system selection (AUTO) may have malfunctioned, or sound system selection is wrong. In such a case, select another colour and/or sound system.

MFT (Manual Fine Tuning)

The adjustments below are not necessary under normal conditions. However, in areas of inferior broadcast conditions where adjustment is necessary for a better picutre, adjust the tuning with the MFT (Manual Fine Tuning).

1. Select the channel you want to fine-tune with the **CH** ▼/▲ buttons or direct select buttons.
2. Press the **MENU** button repeatedly to call up the SET UP menu on the screen.
3. Press the **MENU** ▼/▲ (or CH ▼/▲) buttons to move the cursor (▶) to "MFT".
4. Press the **MENU** –/+ (or⊿ –/+) buttons until the best possible picture and sound are obtained.
   [–]DOWN or [+]UP is highlighted while tuning in.

- Use the MANUAL SEARCH (SEARCH or >>>) function if desired channels cannot be preset with the ASM or if you would like to preset channels to specific position numbers one by one.
- It is convenient to set the channel numbers to the same position numbers using MANUAL SEARCH (SEARCH or >>>) and SKIP functions.

To preset channels (Manual search) and skip unnecessary position numbers

Manual search (SEARCH or >>>)

1 Select a desired position number with the **CH ▼⁄▲** or direct select buttons.

2 Press the **MENU** button repeatedly to call up the SET UP menu on the screen.

3 Press the **MENU ▼/▲** (or CH ▼/▲) buttons to move the cursor (▶) to “SEARCH or >>>”.

4 Press the **MENU** –/+ (or⊿ –/+)buttons to start searching. The **MENU** – (or⊿ –) button searches for lower-numbered channels; the **MENU** + (or⊿ +) button for higher-numbered channels.
Repeat this process until you can get the desired channel.

5 When the desired channel is shown, press the **MENU ▼/▲** buttons (or CH ▼/▲) to move the cursor (▶) to “⎆”.

6 Press the **MENU** + (or⊿ +) button to store the channel at the current position.

7 When you desire to store another channel at another position, move the cursor (▶) to “POSITION” with the **MENU ▼/▲** (or CH ▼/▲)buttons and select a desired position number with the **MENU** –/+ (or⊿ –/+)buttons. Then, press the **MENU ▼/▲** (or CH ▼/▲) buttons to move the cursor (▶) to “SEARCH or >>>” and repeat the steps 4 to 7. Or, repeat the steps 1 to 7 after the display disappears.

To skip a position number

After presetting the channels, you may skip unnecessary position numbers so that only the channels you want to watch are selected.

1 Select the position number to be skipped with the **CH ▼⁄▲** buttons or direct select buttons.

2 Press the **MENU** button repeatedly to call up the SET UP menu on the screen.

3 Press the **MENU ▼/▲** (or CH ▼/▲) buttons to move the cursor (▶) to “SKIP”.

4 Press the **MENU** –/+ (or⊿ –/+) buttons to select “SKIP ON”.

5 Press the **CALL** button to turn off the SET UP menu display.
Select the position number to be skipped with the direct select buttons. The * mark appears to the left of the position number.
The position number will then be skipped when you select channels with the **CH ▼⁄▲** buttons.

To restore a skipped position number

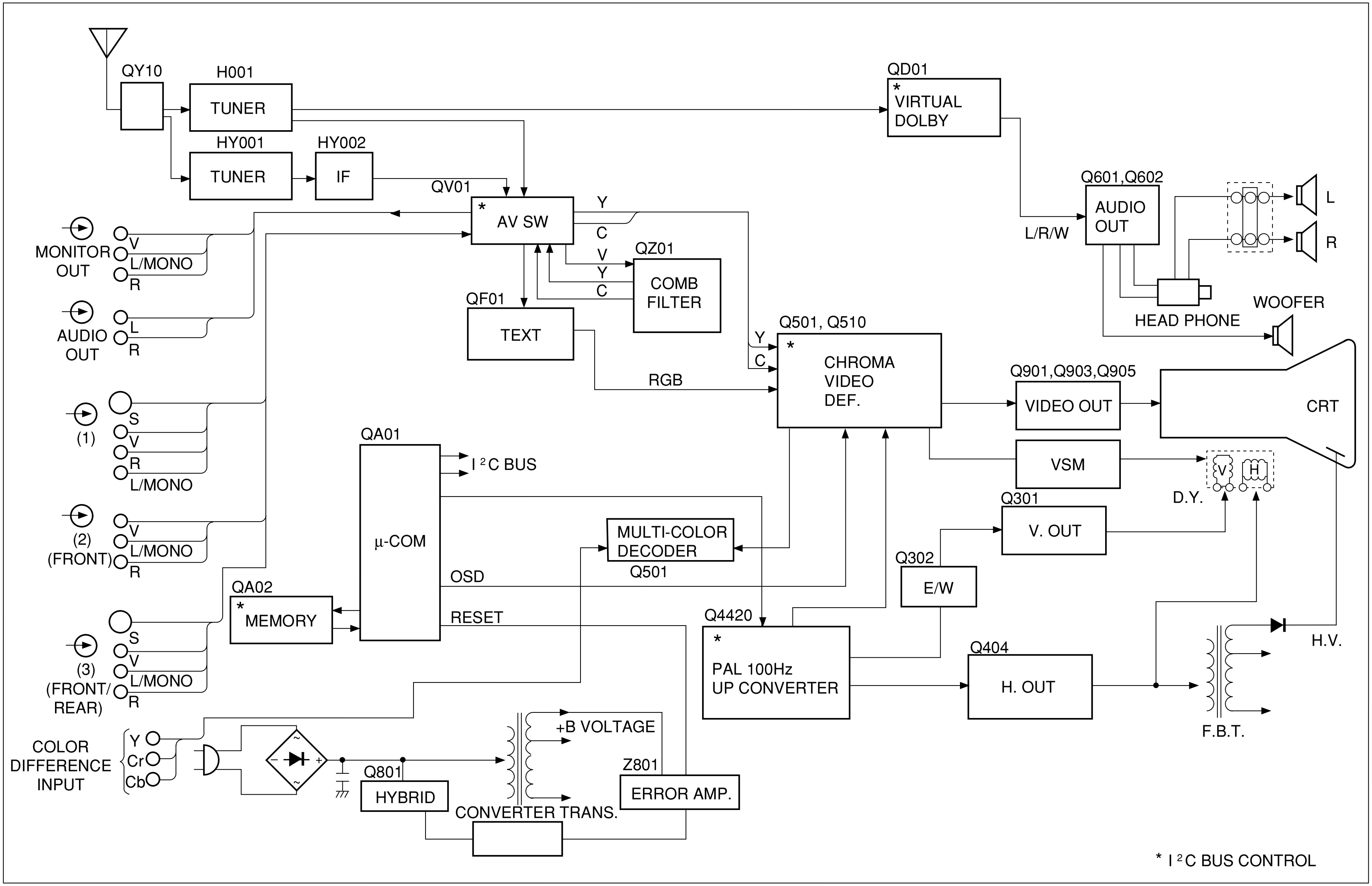
1 Select the position number you want to restore with the direct select buttons.

2 Press the **MENU** button to call up the SET UP menu display and press the **MENU ▼/▲** (or position ▼/▲) buttons to move the cursor (▶) to “SKIP”.

3 Press the **MENU** –/+ (or⊿ –/+) buttons to select “SKIP OFF”.

* Please refer to owner's manual.

CIRCUIT BLOCK DIAGRAM


QY10
H001
TUNER
HY001
TUNER
HY002
IF
QV01
AV SW
QD01
VIRTUAL
DOLBY
Q601,Q602
AUDIO
OUT
L/R/W
L
R
HEAD PHONE
WOOFER
MONITOR
OUT
V
L/MONO
R
AUDIO
OUT
L
R
S
V
R
L/MONO
(1)
(2)
(FRONT)
V
L/MONO
R
(3)
(FRONT/
REAR)
S
V
L/MONO
R
COLOR
DIFFERENCE
INPUT
Y
Cr
Cb
Y
C
V
Y
C
QZ01
COMB
FILTER
QF01
TEXT
RGB
Q501, Q510
Y
C
CHROMA
VIDEO
DEF.
Q901,Q903,Q905
VIDEO OUT
CRT
VSM
D.Y.
V
H
Q301
V. OUT
Q302
E/W
QA01
µ-COM
I ²C BUS
OSD
RESET
MULTI-COLOR
DECODER
Q501
QA02
MEMORY
Q4420
PAL 100Hz
UP CONVERTER
Q404
H. OUT
H.V.
F.B.T.
+B VOLTAGE
Z801
ERROR AMP.
Q801
HYBRID
CONVERTER TRANS.
* I ²C BUS CONTROL

CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

Model : 29AZ8UE/29AZ8UA

Capacitors	CD	:	Ceramic Disk	PF	:	Plastic Film	EL	:	Electrolytic
Resistors	CF	:	Carbon Film	CC	:	Carbon Composition	MF	:	Metal Film
	OMF	:	Oxide Metal Film	VR	:	Variable Resistor	FR	:	Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C101	24668479	ELECTROLYTIC, 35V 4.7UF M 3A
C102	24665221	ELECTROLYTIC, 10V 220UF M 3A
C104	24665221	ELECTROLYTIC, 10V 220UF M 3A
C105	24212102	CERAMIC DISK CK45 B 50V 1000PF K
C106	24797100	ELECTROLYTIC, 50V 10UF M
C107	24763221	ELECTROLYTIC, 16V 220UF M
C202	24109103	CERAMIC CHIP CK73B 50V 10000PF K
C205	24797229	ELECTROLYTIC, 50V 2.2UF M
C206	24794220	ELECTROLYTIC CE04G 16V 22UF M
C219	24105100	CERAMIC CHIP CC73CH 50V 10PF D
C220	24105100	CERAMIC CHIP CC73CH 50V 10PF D
C221	24105100	CERAMIC CHIP CC73CH 50V 10PF D
C303	24214471	CERAMIC DISK CK45 B 500V 470PF K
C304	24693683	PLASTIC FILM CQ921 M 100V 0.068MF J
C305	24617912	ELECTROLYTIC, 50V 2.2UF K 3A LI
C306	24667332	ELECTROLYTIC, 25V 3300UF M 3A
C307	24793101	ELECTROLYTIC, 10V 100UF M
C308	24669221	ELECTROLYTIC CE04Q 50V 220UF M 3A
C309	24073090	ELECTROLYTIC, 50V 100UF M 3A
C310	24669222	ELECTROLYTIC, 50V 2200UF M 3A
C312	24591103	PLASTIC FILM, 50V 0.01MF J
C313	24082058	PLASTIC FILM, 100V 270000PF J
C314	24212102	CERAMIC DISK CK45 B 50V 1000PF K
C316	24567104	PLASTIC FILM, 50V 0.1UF J
C318	24666221	ELECTROLYTIC, 16V 220UF M 3A
C319	24212102	CERAMIC DISK CK45 B 50V 1000PF K
C321	24591203	PLASTIC FILM, 50V 0.02UF J
C322	24617915	ELECTROLYTIC, 50V 1UF K 3A LI
C323	24567224	PLASTIC FILM, 50V 0.22UF J
C324	24567683	PLASTIC FILM, 50V 68000PF J
C325	24539684	MT PLA CAP M 50V 684J MUL
C326	24591182	PLASTIC FILM, 50V 1800PF J
C327	24073042	ELECTROLYTIC, 16V 1000UF M 3A
C329	24212152	CERAMIC DISC, 50V B 1500PF K
C341	24567104	PLASTIC FILM, 50V 0.1UF J
C361	24539474	MT PLA CAP M 50V 474J MUL
C370	24794101	ELECTROLYTIC, 16V 100UF M
C371	24794100	ELECTROLYTIC, 16V 10UF M
C380	24797229	ELECTROLYTIC, 50V 2.2UF M
C406	24214471	CERAMIC DISK CK45 B 500V 470PF K
C413	24214332	CERAMIC DISK, 500V 3300PF K
C416	24109103	CERAMIC CHIP CK73B 50V 10000PF K
C416	24676330	ELECTROLYTIC, 100V 33UF M 3A
C417	24214391	CERAMIC DISC, 500V B 390PF K
C419	24212102	CERAMIC DISK CK45 B 50V 1000PF K
C420	24666101	ELECTROLYTIC, 16V 100UF M 3A
C421	24567104	PLASTIC FILM, 50V 0.1UF J
C423	24829433	PLASTIC FILM, 400V 43000PF J
C432	24073059	ELECTROLYTIC, 25V 3300UF M 3A
C440	24082942	PLASTIC FILM CF92 T 1500VH 3300PF H
C442	24829393	PLASTIC FILM, 400V 39000PF J
C443	24082637	PLASTIC FILM, 400V R1UF J
C444	24503076	PLASTIC FILM, 1800VH 5100PF H
C445	24828473	PLASTIC FILM, 200V 47000PF J
C446	24679330	ELECTROLYTIC, 250V 33UF M 3A
C448	24640908	ELECTROLYTIC, 160V 33UF M 3A LI
C451	24829273	PLASTIC FILM, 400V 27000PF J
C460	24073092	ELECTROLYTIC, 50V 330UF M 3A
C463	24591203	PLASTIC FILM, 50V 0.02UF J
C464	24640872	ELECTROLYTIC CE04R 100V 10UF M 3A
C467	24082425	PLASTIC FILM, 1250VH 8200PF H
C470	24794101	ELECTROLYTIC, 16V 100UF M
C472	24567474	PLASTIC FILM, 50V 0.47UF J
C473	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C475	24591681	PLASTIC FILM CQ921 M 50V 680PF J
C476	24829273	PLASTIC FILM, 400V 27000PF J
C477	24591223	PLASTIC FILM, 50V 0.022MF J
C478	24591563	PLASTIC FILM, 50V 0.056MF J
C481	24567334	PLASTIC FILM, 50V 0.33UF J
C482	24212122	CERAMIC DISC, 50V B 1200PF K
C495	24092343	CERAMIC DISC, 2KV 680PF K
C496	24092343	CERAMIC DISC, 2KV 680PF K
C497	24214471	CERAMIC DISK CK45 B 500V 470PF K
C499	24591272	PLASTIC FILM, 50V 2700PF J
C510	24092730	CERAMIC CHIP, 16V 0.1UF K
C513	24109103	CERAMIC CHIP CK73B 50V 10000PF K
C514	24794101	ELECTROLYTIC, 16V 100UF M

Location No.	Parts No.	Description
C515	24085958	ELEC. NONPOLAR CE04J 50V 1.0UF M NP
C516	24092730	CERAMIC CHIP, 16V 0.1UF K
C517	24092730	CERAMIC CHIP, 16V 0.1UF K
C518	24092730	CERAMIC CHIP, 16V 0.1UF K
C520	24591334	PLASTIC FILM, 50V 0.33MF J
C530	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
C530	24797100	ELECTROLYTIC, 50V 10UF M
C531	24092730	CERAMIC CHIP, 16V 0.1UF K
C531	24212222	CERAMIC DISK CK45 B 50V 2200PF K
C532	24092730	CERAMIC CHIP, 16V 0.1UF K
C532	24436561	CERAMIC DISC CC45 SL 50V560PF J
C533	24092730	CERAMIC CHIP, 16V 0.1UF K
C533	24212332	CERAMIC DISC, 50V B 3300PF K
C534	24092730	CERAMIC CHIP, 16V 0.1UF K
C535	24092730	CERAMIC CHIP, 16V 0.1UF K
C536	24092730	CERAMIC CHIP, 16V 0.1UF K
C537	24092730	CERAMIC CHIP, 16V 0.1UF K
C538	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
C540	24092730	CERAMIC CHIP, 16V 0.1UF K
C541	24092730	CERAMIC CHIP, 16V 0.1UF K
C542	24092730	CERAMIC CHIP, 16V 0.1UF K
C547	24109103	CERAMIC CHIP CK73B 50V 10000PF K
C548	24794101	ELECTROLYTIC, 16V 100UF M
C563	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
C564	24797229	ELECTROLYTIC, 50V 2.2UF M
C601	24591681	PLASTIC FILM CQ921 M 50V 680PF J
C601	24591561	PLASTIC FILM, 50V 560PF J
C602	24591681	PLASTIC FILM CQ921 M 50V 680PF J
C602	24591561	PLASTIC FILM, 50V 560PF J
C603	24797100	ELECTROLYTIC, 50V 10UF M
C604	24797100	ELECTROLYTIC, 50V 10UF M
C605	24795101	ELECTROLYTIC, 25V 100UF M
C606	24795101	ELECTROLYTIC, 25V 100UF M
C607	24591104	PLASTIC FILM, 50V 0.1UF J
C608	24591104	PLASTIC FILM, 50V 0.1UF J
C609	24073094	ELECTROLYTIC, 50V 1000UF M 3A
C610	24073094	ELECTROLYTIC, 50V 1000UF M 3A
C611	24795221	ELECTROLYTIC, 25V 220UF M
C613	24763471	ELECTROLYTIC, 16V 470UF M
C614	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
C614	24206338	ELECTROLYTIC CE04WS 50V 0.33UF M 7L 3A
C623	24797479	ELECTROLYTIC, 50V 4.7UF M
C623	24797339	ELECTROLYTIO CE04G 50V 3.3UF M
C627	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
C627	24206338	ELECTROLYTIC CE04WS 50V 0.33UF M 7L 3A
C628	24794470	ELECTORLYTIC, 16V 47UF M
C636	24591182	PLASTIC FILM, 50V 1800PF J
C639	24591182	PLASTIC FILM, 50V 1800PF J
C640	24797229	ELECTROLYTIC, 50V 2.2UF M
C641	24797229	ELECTROLYTIC, 50V 2.2UF M
C680	24797471	ELECTROLYTIC, 50V 470UF M
C681	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
C704	24591822	PLASTIC FILM, 50V 8200PF J
C707	24794470	ELECTORLYTIC, 16V 47UF M
C712	24666470	ELECTORLYTIC, 16V 47UF M 3A
C713	24790100	ELECTROLYTIC CE04G 160V 10UF M
C714	24436101	CERAMIC DISC CC45 SL 50V100PF J
C715	24214472	CERAMIC DISK CK45 B 500V 4700PF K
C716	24436101	CERAMIC DISC CC45 SL 50V100PF J
C717	24214472	CERAMIC DISK CK45 B 500V 4700PF K
C718	24766470	ELECTROLYTIC, 50V 47UF M
C719	24435560	CERAMIC DISC, 500V SL 56PF J
C720	24790100	ELECTROLYTIC CE04G 160V 10UF M
C721	24797470	ELECTROLYTIC, 50V 47UF M
C726	24212102	CERAMIC DISK CK45 B 50V 1000PF K
⚠ C801	24503002	MT PLA AC275V 0.22UF M
⚠ C802	24503002	MT PLA AC275V 0.22UF M
C805	24092281	CERAMIC DISC CK45E AC 250V 4700PF
C806	24092281	CERAMIC DISC CK45E AC 250V 4700PF
C807	24567474	PLASTIC FILM, 50V 0.47UF J
C808	24796101	ELECTROLYTIC CE04G 35V 100UF M
C809	24567474	PLASTIC FILM, 50V 0.47UF J
C810	24073106	400V680UF LLQ2G681MHSET
⚠ C811	24092553	CERAMIC DISC, AC250V B 470PF K (29AZ8UE)
⚠ C811	24092567	CK45E2E102MC (29AZ8UA)
⚠ C813	24092563	CERAMIC DISC, AC250V B 220PF K (29AZ8UE)
⚠ C813	24092565	CK45B2E471KC (29AZ8UA)
⚠ C814	24092563	CERAMIC DISC, AC250V B 220PF K (29AZ8UE)
⚠ C814	24092565	CK45B2E471KC (29AZ8UA)
⚠ C815	24092555	CERAMIC DISC CK45B AC250V 1000PF M
C816	24794470	ELECTORLYTIC, 16V 47UF M
C817	24092339	CERAMIC DISC, 2KV 330PF K
C818	24095931	PLASTIC FILM CF92T 1250VH 2200PF J
C819	24676220	ELECTROLYTIC, 100V 22UF M 3A
C821	24214471	CERAMIC DISK CK45 B 500V 470PF K
C823	24214471	CERAMIC DISK CK45 B 500V 470PF K
C825	24539104	PLASTIC FILM, 50V 0.1UF J
C829	24212271	CERAMIC DISC, 50V B 270PF K
C832	24665470	ELECTROLYTIC, 10V 47UF M 3A
C833	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C834	24669100	ELECTROLYTIC, 50V 10UF M 3A
C835	24666470	ELECTORLYTIC, 16V 47UF M 3A
C838	24617040	ELECTROLYTIC 04CH 25V 1000UF M 3D
C839	24793222	ELECTROLYTIC CE04G 10V 2200UF M
C841	24669100	ELECTROLYTIC, 50V 10UF M 3A
C842	24669100	ELECTROLYTIC, 50V 10UF M 3A
C843	24567104	PLASTIC FILM, 50V 0.1UF J
C844	24539104	PLASTIC FILM, 50V 0.1UF J
C847	24214331	CERAMIC DISK CK45 B 500V 330PF K
C848	24796102	ELECTROLYTIC, 35V 1000UF M
C849	24214331	CERAMIC DISK CK45 B 500V 330PF K
C850	24214471	CERAMIC DISK CK45 B 500V 470PF K
C851	24668222	ELECTROLYTIC, 35V 2200UF M 3A
C855	24214222	CERAMIC DISC, 500V B 2200PF K
C856	24212102	CERAMIC DISK CK45 B 50V 1000PF K
C860	24666100	ELECTROLYTIC, 10V 10UF M 3A
C861	24591104	PLASTIC FILM, 50V 0.1UF J
C862	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C863	24669222	ELECTROLYTIC, 50V 2200UF M 3A
C866	24214331	CERAMIC DISK CK45 B 500V 330PF K
C868	24092281	CERAMIC DISC CK45E AC 250V 4700PF
C869	24086937	ELECTROLYTIC, 450V 120UF M 22D
C870	24092281	CERAMIC DISC CK45E AC 250V 4700PF
C871	24667101	ELECTROLYTIC, 25V 100UF M 3A
C872	24082934	PLASTIC FILM CF92 T 1500VH 1500PF H
C873	24591272	PLASTIC FILM, 50V 2700PF J
C874	24503001	PLASTIC FILM, AC275V 0.1UF M
C875	24092551	CERAMIC DISC, AC250V B 220PF K
C876	24092551	CERAMIC DISC, AC250V B 220PF K
C877	24591471	PLASTIC FILM, 50V 470PF J
C878	24092339	CERAMIC DISC, 2KV 330PF K
C882	24591122	PLASTIC FILM, 50V 1200PF J
C884	24086916	ELECTROLYTIC CE692R 160V 330UF M 3D
C887	24214471	CERAMIC DISK CK45 B 500V 470PF K
C891	24667332	ELECTROLYTIC, 25V 3300UF M 3A

Location No.	Parts No.	Description
C892	24667332	ELECTROLYTIC, 25V 3300UF M 3A
C893	24092337	CERAMIC DISC, 2KV 220PF K
C895	24676470	ELECTROLYTIC, 100V 47UF M 3A
C896	24214471	CERAMIC DISK CK45 B 500V 470PF K
C898	24667332	ELECTROLYTIC, 25V 3300UF M 3A
C899	24214471	CERAMIC DISK CK45 B 500V 470PF K
C902	24092353	CERAMIC DISC, 2KV 4700PF K
C904	24436561	CERAMIC DISC CC45 SL 50V560PF J
C905	24436471	CERAMIC DISC, 50V SL 470PF J
C907	24436681	CERAMIC DISC, 50V SL 680PF J
C909	24679330	ELECTROLYTIC, 250V 33UF M 3A
C911	24203100	CAPASITOR, ELECTORLYTIC, 16V 10UF M 7L 3A
C913	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C918	24567104	PLASTIC FILM, 50V 0.1UF J
C919	24567104	PLASTIC FILM, 50V 0.1UF J
C920	24567104	PLASTIC FILM, 50V 0.1UF J
C921	24567104	PLASTIC FILM, 50V 0.1UF J
C923	24794470	ELECTORLYTIC, 16V 47UF M
C924	24794470	ELECTORLYTIC, 16V 47UF M
C931	24214101	CERAMIC DISK, 500V B 100PF K
C940	24436220	CERAMIC DISC, 50V SL 22PF J
C941	24436220	CERAMIC DISC, 50V SL 22PF J
C942	24436470	CERAMIC DISC, 50V SL 47PF J
C3110	24085958	ELEC. NONPOLAR CE04J 50V 1.0UF M NP
C4030	24109103	CERAMIC CHIP CK73B 50V 10000PF K
C4300	24109103	CERAMIC CHIP CK73B 50V 10000PF K
C4311	24794221	ELECTROIYTIC CE04G 16V 220UF M
C4402	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
C4403	24763331	ELECTROLYTIC CE04G 16V 330UF M
C4405	24092730	CERAMIC CHIP, 16V 0.1UF K
C4422	24085988	ELECTROLYTIC, NONPOLAR, 50V 1.0UF M 7L
C4461	24591224	PLASTIC FILM, 50V 0.22MF J
C4464	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
C5020	24092730	CERAMIC CHIP, 16V 0.1UF K
C5030	24794101	ELECTROLYTIC, 16V 100UF M
CA30	24474101	CERAMIC CK141B 50V 100PF K
CA37	24474101	CERAMIC CK141B 50V 100PF K
CA38	24474101	CERAMIC CK141B 50V 100PF K
CA40	24474101	CERAMIC CK141B 50V 100PF K
CA41	24474101	CERAMIC CK141B 50V 100PF K
CA42	24794100	ELECTROLYTIC, 16V 10UF M
CA68	24794100	ELECTROLYTIC, 16V 10UF M
CA95	24797220	ELECTROLYTIC CE04G 50V 22UF M
CB01	24744470	ELECTROLYTIV, 16V 47UF M
CD103	24085942	ELECTROLYTIC, NONPOLAR, 16V 10UF M 5L
CD104	24436102	CERAMIC DISC, 50V SL 1000PF J
CD105	24567124	PLASTIC FILM, 50V 0.12UF J
CD106	24567104	PLASTIC FILM, 50V 0.1UF J
CD107	24567823	PLASTIC FILM CF92 M 50V 82000PF J
CD108	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
CD109	24797100	ELECTROLYTIC, 50V 10UF M
CD110	24212103	CERAMIC DISK, 50V B 10000PF K
CD111	24797100	ELECTROLYTIC, 50V 10UF M
CD113	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
CD114	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
CD115	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
CD116	24212103	CERAMIC DISK, 50V B 10000PF K
CD117	24212103	CERAMIC DISK, 50V B 10000PF K
CD118	24567273	PLASTIC FILM, 50V 0.027UF J
CD120	24794221	ELECTROIYTIC CE04G 16V 220UF M
CD122	24212822	CERAMIC DISK CK45 B 50V 8200PF K
CD123	24797220	ELECTROLYTIC CE04G 50V 22UF M

Location No.	Parts No.	Description
CD124	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
CD125	24567273	PLASTIC FILM, 50V 0.027UF J
CD127	24212822	CERAMIC DISK CK45 B 50V 8200PF K
CD128	24797220	ELECTROLYTIC CE04G 50V 22UF M
CF01	24762102	ELECTROLYTIC, 10V 1000UF M
CR12	24092730	CERAMIC CHIP, 16V 0.1UF K
CR13	24092730	CERAMIC CHIP, 16V 0.1UF K
CR14	24092730	CERAMIC CHIP, 16V 0.1UF K
CS01	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS02	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS05	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS06	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS07	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS08	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS09	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS14	24206100	ELECTROLYTIC, 50V 10UF M 7L 3A
CS15	24206100	ELECTROLYTIC, 50V 10UF M 7L 3A
CS16	24206229	ELECTROLYTIC, 50V 2.2UF M 7L 3A
CS19	24206478	ELECTROLYTIC, 50V 0.47UF M 7L 3A
CS20	24206100	ELECTROLYTIC, 50V 10UF M 7L 3A
CS21	24206100	ELECTROLYTIC, 50V 10UF M 7L 3A
CV02	24073077	ELECTROLYTIC, 50V 0.1UF M 3A
CV04	24073077	ELECTROLYTIC, 50V 0.1UF M 3A
CV06	24073077	ELECTROLYTIC, 50V 0.1UF M 3A
CV08	24763221	ELECTROLYTIC, 16V 220UF M
CV09	24073077	ELECTROLYTIC, 50V 0.1UF M 3A
CV12	24539104	PLASTIC FILM, 50V 0.1UF J
CV25	24794220	ELECTROLYTIC CE04G 16V 22UF M
CV26	24539473	MT PLA CAP M 50V 473J MUL
CV35	24474102	CERAMIC, 50V B 1000PF K
CV37	24474102	CERAMIC, 50V B 1000PF K
CV48	24212102	CERAMIC DISK CK45 B 50V 1000PF K
CV51	24666101	ELECTROLYTIC, 16V 100UF M 3A
CV52	24666100	ELECTROLYTIC, 10V 10UF M 3A
CV64	24797010	ELECTROLYTIC CE04G 50V 1.0UF M
CV71	24794471	ELECTROLYTIC, 16V 470UF M
CV72	24794101	ELECTROLYTIC, 16V 100UF M
CV73	24212103	CERAMIC DISK, 50V B 10000PF K
CZ01	24474101	CERAMIC CK141B 50V 100PF K
CZ02	24474101	CERAMIC CK141B 50V 100PF K
CZ03	24794470	ELECTORLYTIC, 16V 47UF M

RESISTORS

Location No.	Parts No.	Description
R101	24382223	OXIDE METAL FILM, 1W 22K OHM J
R205	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R206	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R213	24871681	CHIP, METAL FILM, 1/8W 680 OHM J
R214	24871681	CHIP, METAL FILM, 1/8W 680 OHM J
R215	24871681	CHIP, METAL FILM, 1/8W 680 OHM J
R217	24366392	CARBON FILM, 1/6W 3.9K OHM J
R218	24366473	CARBON FILM, 1/6W 47K OHM J
R218	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R219	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R220	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R221	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R222	24011332	METAL FILM CHIP 1/20W 3.3K J
R227	24366223	CARBON FILM, 1/6W 22K OHM J
R230	24366433	CARBON FILM, 1/6W 43K OHM J
R231	24366103	CARBON FILM, 1/6W 10K OHM J
R232	24366103	CARBON FILM, 1/6W 10K OHM J
R240	24366101	CARBON FILM, 1/6W 100 OHM J
R245	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R299	24366103	CARBON FILM, 1/6W 10K OHM J
R303	24321109	OXIDE METAL FILM, 1/2W 1 OHM J
R305	24338688	OXIDE METAL FILM, 1W 0.68 OHM J

Location No.	Parts No.	Description
R307	24366621	CARBON FILM, 1/6W 620 OHM J
R309	24366363	CARBON FILM, 1/6W 36K OHM J
R310	24366102	CARBON FILM, 1/6W 1K OHM J
R315	24366684	CARBON FILM, 1/6W 680K OHM J
R316	24366474	CARBON FILM, 1/6W 470K OHM J
R317	24366472	CARBON FILM, 1/6W 4.7K OHM J
R318	24366471	CARBON FILM, 1/6W 470 OHM J
R319	24366471	CARBON FILM, 1/6W 470 OHM J
R320	24366101	CARBON FILM, 1/6W 100 OHM J
R321	24366153	CARBON FILM, 1/6W 15K OHM J
R322	24366102	CARBON FILM, 1/6W 1K OHM J
R323	24366103	CARBON FILM, 1/6W 10K OHM J
R324	24366122	CARBON FILM, 1/6W 1.2K OHM J
R325	24366103	CARBON FILM, 1/6W 10K OHM J
R326	24366155	CARBON FILM, 1/6W 1.5M OHM J
R327	24339689	OXIDE METAL FILM, 2W 6.8 OHM J
R328	24366471	CARBON FILM, 1/6W 470 OHM J
R329	24366153	CARBON FILM, 1/6W 15K OHM J
R330	24366113	CARBON FILM, 1/6W 11K OHM J
R331	24366334	CARBON FILM, 1/6W 330K OHM J
R333	24366163	CARBON FILM, 1/6W 16K OHM J
R336	24383151	OXIDE RES B 2W 151J
R341	24366103	CARBON FILM, 1/6W 10K OHM J
R343	24366223	CARBON FILM, 1/6W 22K OHM J
R344	24383121	OXIDE METAL FILM, 1/2W 120 OHM J
R352	24366153	CARBON FILM, 1/6W 15K OHM J
R360	24011223	METAL FILM CHIP 1/20W 22K J
R360	24383181	OXIDE METAL FILM, 2W 180 OHM J
R361	24366433	CARBON FILM, 1/6W 43K OHM J
R362	24366103	CARBON FILM, 1/6W 10K OHM J
R363	24366103	CARBON FILM, 1/6W 10K OHM J
R364	24011223	METAL FILM CHIP 1/20W 22K J
R365	24011223	METAL FILM CHIP 1/20W 22K J
R366	24011472	METAL FILM CHIP 1/20W 4.7K J
R370	24322129	METAL FILM 1W 1R2 J
R371	24366562	CARBON FILM, 1/6W 5.6K OHM J
R372	24366332	CARBON FILM, 1/6W 3.3K OHM J
R373	24366182	CARBON FILM, 1/6W 1.8K OHM J
R374	24366473	CARBON FILM, 1/6W 47K OHM J
R385	24366102	CARBON FILM, 1/6W 1K OHM J
R386	24366103	CARBON FILM, 1/6W 10K OHM J
R399	24366684	CARBON FILM, 1/6W 680K OHM J
R400	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R405	24553682	OXIDE METAL FILM, 1W 6.8K OHM J
R411	24366180	CARBON FILM, 1/6W 18 OHM J
R412	24323208	OXIDE METAL FILM, 2W 0.2 OHM J
R414	24366101	CARBON FILM, 1/6W 100 OHM J
R415	24366752	CARBON FILM, 1/6W 7.5K OHM J
R415	24554271	OXIDE METAL FILM, 2W 270 OHM J
R416	24366103	CARBON FILM, 1/6W 10K OHM J
R416	24381563	OXIDE METAL FILM, 1/2W 56K OHM J
R417	24510101	CERAMIC COVERED, 5W 100 OHM J
R424	24366751	CARBON FILM, 1/6W 750 OHM J
R425	24552182	OXIDE METAL FILM, 1/2W 1.8K OHM J
R426	24003898	METAL FILM, 1/4W 3.3K OHM J
R427	24366183	CARBON FILM, 1/6W 18K OHM J
R428	24366561	CARBON FILM, 1/6W 560 OHM J
R429	24321919	OXIDE METAL FILM, 1/2W 9.1 OHM J
R431	24366103	CARBON FILM, 1/6W 10K OHM J
R432	24366473	CARBON FILM, 1/6W 47K OHM J
R433	24366681	CARBON FILM, 1/6W 680 OHM J
R434	24366472	CARBON FILM, 1/6W 4.7K OHM J
R441	24383561	OXIDE METAL FILM, 2W 560 OHM J
R450	24321129	OXIDE METAL FILM, 1/2W 1.2 OHM J
R460	24552182	OXIDE METAL FILM, 1/2W 1.8K OHM J

Location No.	Parts No.	Description
R461	24381123	OXIDE METAL FILM, 1/2W 12K OHM J
R463	24323229	OXIDE METAL FILM, 2W 2.2 OHM J
R464	24366223	CARBON FILM, 1/6W 22K OHM J
R465	24366333	CARBON FILM, 1/6W 33K OHM J
R466	24366332	CARBON FILM, 1/6W 3.3K OHM J
R469	24531150	FUSIBLE, 1/2W 15 OHM J
R470	24338568	METAL FILM, 1W 0.56 OHM J
R471	24531271	FUSIBLE, 1/2W 270 OHM J
R472	24366101	CARBON FILM, 1/6W 100 OHM J
R473	24366103	CARBON FILM, 1/6W 10K OHM J
R473	24366183	CARBON FILM, 1/6W 18K OHM J
R474	24376393	CARBON FILM, 1/2W 39K OHM J
R474	24366473	CARBON FILM, 1/6W 47K OHM J
R476	24366471	CARBON FILM, 1/6W 470 OHM J
R476	24381333	OXIDE METAL FILM, 1/2W 33K OHM J
R477	24366102	CARBON FILM, 1/6W 1K OHM J
R478	24366393	CARBON FILM, 1/6W 39K OHM J
R479	24531680	FUSIBLE, 1/2W 68 OHM J
R480	24552222	OXIDE METAL FILM, 1/2W 2.2K OHM J
R481	24366392	CARBON FILM, 1/6W 3.9K OHM J
R482	24366822	CARBON FILM, 1/6W 8.2K OHM J
R483	24366223	CARBON FILM, 1/6W 22K OHM J
R487	24366154	CARBON FILM, 1/6W 150K OHM J
R488	24366154	CARBON FILM, 1/6W 150K OHM J
R490	24366101	CARBON FILM, 1/6W 100 OHM J
R491	24366101	CARBON FILM, 1/6W 100 OHM J
R492	24366472	CARBON FILM, 1/6W 4.7K OHM J
R499	24366394	CARBON FILM, 1/6W 390K OHM J
R513	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R516	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R517	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R530	24366101	CARBON FILM, 1/6W 100 OHM J
R531	24366222	CARBON FILM, 1/6W 2.2K OHM J
R532	24366331	CARBON FILM, 1/6W 330 OHM J
R533	24366105	CARBON FILM, 1/6W 1M OHM J
R534	24366123	CARBON FILM, 1/6W 12K OHM J
R535	24366392	CARBON FILM, 1/6W 3.9K OHM J
R536	24366392	CARBON FILM, 1/6W 3.9K OHM J
R537	24366103	CARBON FILM, 1/6W 10K OHM J
R552	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R554	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R555	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R561	24552181	OXIDE METAL FILM, 1/2W 180 OHM J
R592	24366472	CARBON FILM, 1/6W 4.7K OHM J
R593	24366102	CARBON FILM, 1/6W 1K OHM J
R594	24366102	CARBON FILM, 1/6W 1K OHM J
R595	24366472	CARBON FILM, 1/6W 4.7K OHM J
R596	24366102	CARBON FILM, 1/6W 1K OHM J
R597	24366102	CARBON FILM, 1/6W 1K OHM J
R601	24366103	CARBON FILM, 1/6W 10K OHM J
R601	24366682	CARBON FILM, 1/6W 6.8K OHM J
R602	24366103	CARBON FILM, 1/6W 10K OHM J
R602	24366682	CARBON FILM, 1/6W 6.8K OHM J
R603	24366123	CARBON FILM, 1/6W 12K OHM J
R603	24366153	CARBON FILM, 1/6W 15K OHM J
R604	24366123	CARBON FILM, 1/6W 12K OHM J
R604	24366153	CARBON FILM, 1/6W 15K OHM J
R606	24366562	CARBON FILM, 1/6W 5.6K OHM J
R606	24366682	CARBON FILM, 1/6W 6.8K OHM J
R607	24366562	CARBON FILM, 1/6W 5.6K OHM J
R607	24366682	CARBON FILM, 1/6W 6.8K OHM J
R609	24366229	CARBON FILM, 1/6W 2.2 OHM J
R612	24366103	CARBON FILM, 1/6W 10K OHM J
R613	24366331	CARBON FILM, 1/6W 330 OHM J
R614	24366103	CARBON FILM, 1/6W 10K OHM J

Location No.	Parts No.	Description
R615	24366229	CARBON FILM, 1/6W 2.2 OHM J
R626	24366224	CARBON FILM, 1/6W 220K OHM J
R634	24366332	CARBON FILM, 1/6W 3.3K OHM J
R635	24366332	CARBON FILM, 1/6W 3.3K OHM J
R661	24552271	OXIDE METAL FILM, 1/2W 270 OHM J
R662	24552271	OXIDE METAL FILM, 1/2W 270 OHM J
R668	24366223	CARBON FILM, 1/6W 22K OHM J
R669	24366223	CARBON FILM, 1/6W 22K OHM J
R680	24366104	CARBON FILM, 1/6W 100K OHM J
R681	24366472	CARBON FILM, 1/6W 4.7K OHM J
R683	24366223	CARBON FILM, 1/6W 22K OHM J
R684	24366223	CARBON FILM, 1/6W 22K OHM J
R702	24552221	OXIDE METAL FILM, 1/2W 220 OHM J
R709	24366563	CARBON FILM, 1/6W 56K OHM J
R713	24366393	CARBON FILM, 1/6W 39K OHM J
R715	24366273	CARBON FILM, 1/6W 27K OHM J
R716	24366273	CARBON FILM, 1/6W 27K OHM J
R717	24366333	CARBON FILM, 1/6W 33K OHM J
R718	24366222	CARBON FILM, 1/6W 2.2K OHM J
R719	24366101	CARBON FILM, 1/6W 100 OHM J
R720	24366102	CARBON FILM, 1/6W 1K OHM J
R721	24366102	CARBON FILM, 1/6W 1K OHM J
R722	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R723	24366101	CARBON FILM, 1/6W 100 OHM J
R724	24366151	CARBON FILM, 1/6W 150 OHM J
R725	24366182	CARBON FILM, 1/6W 1.8K OHM J
R730	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
R731	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R732	24366330	CARBON FILM, 1/6W 33 OHM J
R733	24366683	CARBON FILM, 1/6W 68K OHM J
R734	24366330	CARBON FILM, 1/6W 33 OHM J
R735	24366683	CARBON FILM, 1/6W 68K OHM J
R736	24553430	OXIDE METAL FILM, 1W 43 OHM J
R737	24366751	CARBON FILM, 1/6W 750 OHM J
R738	24366102	CARBON FILM, 1/6W 1K OHM J
R739	24366751	CARBON FILM, 1/6W 750 OHM J
R740	24553430	OXIDE METAL FILM, 1W 43 OHM J
R741	24322209	OXIDE METAL FILM, 1W 2 OHM J
R742	24322209	OXIDE METAL FILM, 1W 2 OHM J
R743	24554181	OXIDE METAL FILM, 2W 180 OHM J
R744	24366122	CARBON FILM, 1/6W 1.2K OHM J
R745	24366122	CARBON FILM, 1/6W 1.2K OHM J
⚠ R801	24009954	METAL FILN, 1/2W 2.2M OHM J
R803	24553683	RESISTOR OXIDE 1W 68K
R805	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
R806	24381223	OXIDE FILM 1/2W 22K J
R808	24366104	CARBON FILM, 1/6W 100K OHM J
⚠ R808	24019484	THERMISTOR, PTC THERMISTOR AC265 4R5A
R811	24366225	CARBON FILM, 1/6W 2.2M OHM J
R812	24568479	CERAMIC COVERED, 7W 4.7 OHM J
R813	24007061	CERAMIC COVERD, 2W 1.8 OHM K
R814	24366152	CARBON FILM, 1/6W 1.5K OHM J
R815	24552102	OXIDE METAL FILM, 1/2W 1K OHM J
R818	24019460	METAL PLATE RK99 2W R10 J
R819	24310829	METAL FILM 1/2W 8R2 J
R821	24366101	CARBON FILM, 1/6W 100 OHM J
R822	24552103	OXIDE METAL FILM, 1/2W 10K OHM J
R823	24381183	OXIDE FILM 1/2W 18K J
R824	24569689	CERAMIC COVERED, 10W 6.8 OHM J
R827	24366472	CARBON FILM, 1/6W 4.7K OHM J
R828	24366222	CARBON FILM, 1/6W 2.2K OHM J
R829	24321338	OXIDE METAL FILM, 1/2W 0.33 OHM J
R831	24366471	CARBON FILM, 1/6W 470 OHM J
R832	24366472	CARBON FILM, 1/6W 4.7K OHM J

Location No.	Parts No.	Description
R833	24366222	CARBON FILM, 1/6W 2.2K OHM J
R841	24531120	FUSIBLE, 1/2W 12 OHM J
R842	24552392	OXIDE METAL FILM, 1/2W 3.9K OHM J
R843	24366103	CARBON FILM, 1/6W 10K OHM J
R843	24366331	CARBON FILM, 1/6W 330 OHM J
R844	24366332	CARBON FILM, 1/6W 3.3K OHM J
R844	24366102	CARBON FILM, 1/6W 1K OHM J
R845	24366472	CARBON FILM, 1/6W 4.7K OHM J
R848	24366472	CARBON FILM, 1/6W 4.7K OHM J
R851	24366101	CARBON FILM, 1/6W 100 OHM J
R852	24366102	CARBON FILM, 1/6W 1K OHM J
R853	24366103	CARBON FILM, 1/6W 10K OHM J
R854	24366472	CARBON FILM, 1/6W 4.7K OHM J
R855	24366472	CARBON FILM, 1/6W 4.7K OHM J
R857	24366472	CARBON FILM, 1/6W 4.7K OHM J
R858	24366472	CARBON FILM, 1/6W 4.7K OHM J
R860	24366102	CARBON FILM, 1/6W 1K OHM J
R861	24367273	CARBON FILM, 1/6W 27K OHM G
R862	24367562	CARBON FILM, 1/6W 5.6K OHM G
R863	24366101	CARBON FILM, 1/6W 100 OHM J
R864	24321109	OXIDE METAL FILM, 1/2W 1 OHM J
R865	24366272	CARBON FILM, 1/6W 2.7K OHM J
R866	24366332	CARBON FILM, 1/6W 3.3K OHM J
R867	24366103	CARBON FILM, 1/6W 10K OHM J
R868	24568150	CEMENT, 7W 15 OHM J
R869	24322338	OXIDE METAL FILM, 1W 0.33 OHM J
R870	24322338	OXIDE METAL FILM, 1W 0.33 OHM J
R871	24366621	CARBON FILM, 1/6W 620 OHM J
R872	24384333	OXIDE METAL FILM, 3W 33K OHM J
R873	24568229	CEMENT, 7W 2.2 OHM J
R875	24366332	CARBON FILM, 1/6W 3.3K OHM J
R876	24366562	CARBON FILM, 1/6W 5.6K OHM J
R877	24366153	CARBON FILM, 1/6W 15K OHM J
R880	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R881	24552561	OXIDE METAL FILM, 1/2W 560 OHM J
R885	24366104	CARBON FILM, 1/6W 100K OHM J
R894	24366334	CARBON FILM, 1/6W 330K OHM J
R895	24366393	CARBON FILM, 1/6W 39K OHM J
R896	24366562	CARBON FILM, 1/6W 5.6K OHM J
R897	24366224	CARBON FILM, 1/6W 220K OHM J
⚠ R899	24005015	METAL GLAZE, 1W 8.2M OHM J
R901	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R902	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R903	24946561	CARBON COMPOSITION, 1/2W 560 OHM K
R904	24366472	CARBON FILM, 1/6W 4.7K OHM J
R905	24366150	CARBON FILM, 1/6W 15 OHM J
R906	24366103	CARBON FILM, 1/6W 10K OHM J
R912	24366102	CARBON FILM, 1/6W 1K OHM J
R914	24366471	CARBON FILM, 1/6W 470 OHM J
R915	24366470	CARBON FILM, 1/6W 47 OHM J
R916	24366220	CARBON FILM, 1/6W 22 OHM J
R917	24366331	CARBON FILM, 1/6W 330 OHM J
R918	24366240	CARBON FILM, 1/6W 24 OHM J
R919	24366102	CARBON FILM, 1/6W 1K OHM J
R920	24000910	FUSE RES RN Z 1W 339J
R921	24366471	CARBON FILM, 1/6W 470 OHM J
R922	24366470	CARBON FILM, 1/6W 47 OHM J
R924	24366220	CARBON FILM, 1/6W 22 OHM J
R925	24366331	CARBON FILM, 1/6W 330 OHM J
R926	24366102	CARBON FILM, 1/6W 1K OHM J
R928	24366471	CARBON FILM, 1/6W 470 OHM J
R929	24366470	CARBON FILM, 1/6W 47 OHM J
R930	24366180	CARBON FILM, 1/6W 18 OHM J
R932	24366332	CARBON FILM, 1/6W 3.3K OHM J
R934	24366391	CARBON FILM, 1/6W 390 OHM J

Location No.	Parts No.	Description
R935	24366112	CARBON FILM, 1/6W 1.1K OHM J
R937	24366331	CARBON FILM, 1/6W 330 OHM J
R939	24366470	CARBON FILM, 1/6W 47 OHM J
R942	24366392	CARBON FILM, 1/6W 3.9K OHM J
R943	24366392	CARBON FILM, 1/6W 3.9K OHM J
R944	24366392	CARBON FILM, 1/6W 3.9K OHM J
R945	24366220	CARBON FILM, 1/6W 22 OHM J
R946	24366220	CARBON FILM, 1/6W 22 OHM J
R947	24366561	CARBON FILM, 1/6W 560 OHM J
R948	24366822	CARBON FILM, 1/6W 8.2K OHM J
R949	24366271	CARBON FILM, 1/6W 270 OHM J
R950	24060356	VARIABLE, METAL 16B 0.6W 20M OHM M
R952	24366622	CARBON FILM, 1/6W 6.2K OHM J
R953	24366622	CARBON FILM, 1/6W 6.2K OHM J
R954	24366622	CARBON FILM, 1/6W 6.2K OHM J
R960	24383153	OXIDE METAL FILM, 2W 15K OHM J
R961	24383153	OXIDE METAL FILM, 2W 15K OHM J
R962	24383153	OXIDE METAL FILM, 2W 15K OHM J
R963	24383153	OXIDE METAL FILM, 2W 15K OHM J
R964	24383153	OXIDE METAL FILM, 2W 15K OHM J
R965	24383153	OXIDE METAL FILM, 2W 15K OHM J
R966	24366471	CARBON FILM, 1/6W 470 OHM J
R967	24366331	CARBON FILM, 1/6W 330 OHM J
R968	24366271	CARBON FILM, 1/6W 270 OHM J
R969	24366222	CARBON FILM, 1/6W 2.2K OHM J
R970	24366102	CARBON FILM, 1/6W 1K OHM J
R971	24366272	CARBON FILM, 1/6W 2.7K OHM J
R972	24366102	CARBON FILM, 1/6W 1K OHM J
R973	24366103	CARBON FILM, 1/6W 10K OHM J
R974	24366103	CARBON FILM, 1/6W 10K OHM J
R975	24366272	CARBON FILM, 1/6W 2.7K OHM J
R977	24366561	CARBON FILM, 1/6W 560 OHM J
R978	24383153	OXIDE METAL FILM, 2W 15K OHM J
R979	24383153	OXIDE METAL FILM, 2W 15K OHM J
R980	24366471	CARBON FILM, 1/6W 470 OHM J
R981	24366471	CARBON FILM, 1/6W 470 OHM J
R982	24366682	CARBON FILM, 1/6W 6.8K OHM J
R983	24366222	CARBON FILM, 1/6W 2.2K OHM J
R984	24367821	CARBON FILM, 1/6W 820 OHM G
R985	24367471	CARBON FILM, 1/6W 470 OHM G
R986	24367681	CARBON FILM, 1/6W 680 OHM G
R987	24367681	CARBON FILM, 1/6W 680 OHM G
R988	24367472	CARBON FILM, 1/6W 4.7K OHM G
R989	24367472	CARBON FILM, 1/6W 4.7K OHM G
R990	24366561	CARBON FILM, 1/6W 560 OHM J
R991	24367391	CARBON FILM, 1/6W 390 OHM G
R992	24366150	CARBON FILM, 1/6W 15 OHM J
R993	24383153	OXIDE METAL FILM, 2W 15K OHM J
R994	24383153	OXIDE METAL FILM, 2W 15K OHM J
R995	24383153	OXIDE METAL FILM, 2W 15K OHM J
R996	24383153	OXIDE METAL FILM, 2W 15K OHM J
R997	24366272	CARBON FILM, 1/6W 2.7K OHM J
R998	24366102	CARBON FILM, 1/6W 1K OHM J
R2104	24011332	METAL FILM CHIP 1/20W 3.3K J
R3105	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R3106	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R3110	24011224	METAL FILM CHIP 1/20W 220K J
R4202	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4203	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4408	24366361	CARBON FILM, 1/6W 360 OHM J
R4410	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4422	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4424	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4425	24552471	OXIDE METAL FILM, 1/2W 470 OHM J
R4430	24366622	CARBON FILM, 1/6W 6.2K OHM J
R4460	24366102	CARBON FILM, 1/6W 1K OHM J
R4461	24366102	CARBON FILM, 1/6W 1K OHM J
R4462	24366133	CARBON FILM, 1/6W 13K OHM J
R4463	24366682	CARBON FILM, 1/6W 6.8K OHM J
R4463	24011471	METAL FILM CHIP 1/20W 470 J
R4464	24011302	CHIP, METAL FILM, 1/20W 3K OHM J
R4465	24366223	CARBON FILM, 1/6W 22K OHM J
R4466	24366101	CARBON FILM, 1/6W 100 OHM J
R4467	24366103	CARBON FILM, 1/6W 10K OHM J
R4472	24011223	METAL FILM CHIP 1/20W 22K J
R4473	24366471	CARBON FILM, 1/6W 470 OHM J
R4474	24366471	CARBON FILM, 1/6W 470 OHM J
RA01	24366102	CARBON FILM, 1/6W 1K OHM J
RA03	24366102	CARBON FILM, 1/6W 1K OHM J
RA04	24366102	CARBON FILM, 1/6W 1K OHM J
RA05	24366102	CARBON FILM, 1/6W 1K OHM J
RA07	24366102	CARBON FILM, 1/6W 1K OHM J
RA08	24366102	CARBON FILM, 1/6W 1K OHM J
RA09	24366102	CARBON FILM, 1/6W 1K OHM J
RA13	24366102	CARBON FILM, 1/6W 1K OHM J
RA14	24366103	CARBON FILM, 1/6W 10K OHM J
RA16	24366102	CARBON FILM, 1/6W 1K OHM J
RA17	24366102	CARBON FILM, 1/6W 1K OHM J
RA18	24366102	CARBON FILM, 1/6W 1K OHM J
RA20	24366102	CARBON FILM, 1/6W 1K OHM J
RA21	24366103	CARBON FILM, 1/6W 10K OHM J
RA22	24366102	CARBON FILM, 1/6W 1K OHM J
RA24	24366101	CARBON FILM, 1/6W 100 OHM J
RA25	24366101	CARBON FILM, 1/6W 100 OHM J
RA26	24366102	CARBON FILM, 1/6W 1K OHM J
RA27	24366102	CARBON FILM, 1/6W 1K OHM J
RA33	24366102	CARBON FILM, 1/6W 1K OHM J
RA34	24366103	CARBON FILM, 1/6W 10K OHM J
RA35	24366102	CARBON FILM, 1/6W 1K OHM J
RA36	24366472	CARBON FILM, 1/6W 4.7K OHM J
RA37	24366101	CARBON FILM, 1/6W 100 OHM J
RA38	24366101	CARBON FILM, 1/6W 100 OHM J
RA40	24366331	CARBON FILM, 1/6W 330 OHM J
RA41	24366331	CARBON FILM, 1/6W 330 OHM J
RA42	24366333	CARBON FILM, 1/6W 33K OHM J
RA61	24366103	CARBON FILM, 1/6W 10K OHM J
RA62	24366103	CARBON FILM, 1/6W 10K OHM J
RA64	24366103	CARBON FILM, 1/6W 10K OHM J
RA65	24366332	CARBON FILM, 1/6W 3.3K OHM J
RA66	24366332	CARBON FILM, 1/6W 3.3K OHM J
RA67	24366273	CARBON FILM, 1/6W 27K OHM J
RA68	24366273	CARBON FILM, 1/6W 27K OHM J
RA70	24366333	CARBON FILM, 1/6W 33K OHM J
RA71	24366683	CARBON FILM, 1/6W 68K OHM J
RA72	24366223	CARBON FILM, 1/6W 22K OHM J
RA73	24366103	CARBON FILM, 1/6W 10K OHM J
RA74	24366103	CARBON FILM, 1/6W 10K OHM J
RA75	24366333	CARBON FILM, 1/6W 33K OHM J
RA76	24366103	CARBON FILM, 1/6W 10K OHM J
RA78	24366102	CARBON FILM, 1/6W 1K OHM J
RA79	24366103	CARBON FILM, 1/6W 10K OHM J
RA83	24366102	CARBON FILM, 1/6W 1K OHM J
RA87	24366223	CARBON FILM, 1/6W 22K OHM J
RA88	24366472	CARBON FILM, 1/6W 4.7K OHM J
RA89	24366103	CARBON FILM, 1/6W 10K OHM J
RA90	24366102	CARBON FILM, 1/6W 1K OHM J
RA91	24366103	CARBON FILM, 1/6W 10K OHM J
RA92	24366102	CARBON FILM, 1/6W 1K OHM J
RA99	24366103	CARBON FILM, 1/6W 10K OHM J
RA031	24366103	CARBON FILM, 1/6W 10K OHM J

Location No.	Parts No.	Description
RA122	24366332	CARBON FILM, 1/6W 3.3K OHM J
RA123	24366332	CARBON FILM, 1/6W 3.3K OHM J
RA124	24366332	CARBON FILM, 1/6W 3.3K OHM J
RA125	24366221	CARBON FILM, 1/6W 220 OHM J
RA130	24366561	CARBON FILM, 1/6W 560 OHM J
RA131	24366561	CARBON FILM, 1/6W 560 OHM J
RA132	24366561	CARBON FILM, 1/6W 560 OHM J
RA241	24366472	CARBON FILM, 1/6W 4.7K OHM J
RA251	24366472	CARBON FILM, 1/6W 4.7K OHM J
RB01	24366271	CARBON FILM, 1/6W 270 OHM J
RB01	24366331	CARBON FILM, 1/6W 330 OHM J
RB02	24366221	CARBON FILM, 1/6W 220 OHM J
RB03	24366101	CARBON FILM, 1/6W 100 OHM J
RB03	24366102	CARBON FILM, 1/6W 1K OHM J
RB04	24366102	CARBON FILM, 1/6W 1K OHM J
RB09	24366470	CARBON FILM, 1/6W 47 OHM J
RB11	24366103	CARBON FILM, 1/6W 10K OHM J
RB20	24366103	CARBON FILM, 1/6W 10K OHM J
RB21	24366104	CARBON FILM, 1/6W 100K OHM J
RB30	24366682	CARBON FILM, 1/6W 6.8K OHM J
RB41	24366102	CARBON FILM, 1/6W 1K OHM J
RB43	24366103	CARBON FILM, 1/6W 10K OHM J
RB44	24366103	CARBON FILM, 1/6W 10K OHM J
RB45	24366101	CARBON FILM, 1/6W 100 OHM J
RB81	24366122	CARBON FILM, 1/6W 1.2K OHM J
RB82	24366123	CARBON FILM, 1/6W 12K OHM J
RB83	24366123	CARBON FILM, 1/6W 12K OHM J
RB84	24366562	CARBON FILM, 1/6W 5.6K OHM J
RB90	24366392	CARBON FILM, 1/6W 3.9K OHM J
RB91	24366473	CARBON FILM, 1/6W 47K OHM J
RB92	24366271	CARBON FILM, 1/6W 270 OHM J
RB93	24366271	CARBON FILM, 1/6W 270 OHM J
RB94	24366222	CARBON FILM, 1/6W 2.2K OHM J
RB95	24366222	CARBON FILM, 1/6W 2.2K OHM J
RB98	24366102	CARBON FILM, 1/6W 1K OHM J
RC11	24366102	CARBON FILM, 1/6W 1K OHM J
RC12	24366102	CARBON FILM, 1/6W 1K OHM J
RD101	24366473	CARBON FILM, 1/6W 47K OHM J
RD102	24366473	CARBON FILM, 1/6W 47K OHM J
RD104	24366101	CARBON FILM, 1/6W 100 OHM J
RD113	24366101	CARBON FILM, 1/6W 100 OHM J
RD114	24366101	CARBON FILM, 1/6W 100 OHM J
RD115	24366101	CARBON FILM, 1/6W 100 OHM J
RD116	24366101	CARBON FILM, 1/6W 100 OHM J
RD117	24366562	CARBON FILM, 1/6W 5.6K OHM J
RD118	24366103	CARBON FILM, 1/6W 10K OHM J
RD119	24366103	CARBON FILM, 1/6W 10K OHM J
RD120	24366562	CARBON FILM, 1/6W 5.6K OHM J
RJ01	24366103	CARBON FILM, 1/6W 10K OHM J
RJ02	24366102	CARBON FILM, 1/6W 1K OHM J
RJ04	24366102	CARBON FILM, 1/6W 1K OHM J
RJ05	24323479	METAL FILM, 2W 4.7 OHM J
RJ06	24366103	CARBON FILM, 1/6W 10K OHM J
RJ10	24000445	CHIP JUMPER, 1608TYPE
RJ11	24000445	CHIP JUMPER, 1608TYPE
RJ12	24000445	CHIP JUMPER, 1608TYPE
RJ13	24000445	CHIP JUMPER, 1608TYPE
RJ14	24000445	CHIP JUMPER, 1608TYPE
RJ15	24000445	CHIP JUMPER, 1608TYPE
RJ16	24000445	CHIP JUMPER, 1608TYPE
RJ17	24000445	CHIP JUMPER, 1608TYPE
RJ18	24000445	CHIP JUMPER, 1608TYPE
RS03	24366562	CARBON FILM, 1/6W 5.6K OHM J
RS04	24366562	CARBON FILM, 1/6W 5.6K OHM J
RS07	24366562	CARBON FILM, 1/6W 5.6K OHM J

Location No.	Parts No.	Description
RS08	24366562	CARBON FILM, 1/6W 5.6K OHM J
RS09	24366562	CARBON FILM, 1/6W 5.6K OHM J
RS10	24366562	CARBON FILM, 1/6W 5.6K OHM J
RS11	24366562	CARBON FILM, 1/6W 5.6K OHM J
RS12	24366562	CARBON FILM, 1/6W 5.6K OHM J
RS13	24366101	CARBON FILM, 1/6W 100 OHM J
RS14	24366101	CARBON FILM, 1/6W 100 OHM J
RS15	24366104	CARBON FILM, 1/6W 100K OHM J
RS16	24366104	CARBON FILM, 1/6W 100K OHM J
RS17	24366223	CARBON FILM, 1/6W 22K OHM J
RS18	24366223	CARBON FILM, 1/6W 22K OHM J
RS19	24366102	CARBON FILM, 1/6W 1K OHM J
RS20	24366102	CARBON FILM, 1/6W 1K OHM J
RS21	24366222	CARBON FILM, 1/6W 2.2K OHM J
RS22	24366222	CARBON FILM, 1/6W 2.2K OHM J
RS23	24366101	CARBON FILM, 1/6W 100 OHM J
RS24	24366101	CARBON FILM, 1/6W 100 OHM J
RS31	24366103	CARBON FILM, 1/6W 10K OHM J
RS32	24366104	CARBON FILM, 1/6W 100K OHM J
RS35	24366104	CARBON FILM, 1/6W 100K OHM J
RS36	24366223	CARBON FILM, 1/6W 22K OHM J
RS37	24366102	CARBON FILM, 1/6W 1K OHM J
RS38	24366222	CARBON FILM, 1/6W 2.2K OHM J
RS39	24366101	CARBON FILM, 1/6W 100 OHM J
RS40	24366104	CARBON FILM, 1/6W 100K OHM J
RS41	24366223	CARBON FILM, 1/6W 22K OHM J
RS42	24366102	CARBON FILM, 1/6W 1K OHM J
RS43	24366222	CARBON FILM, 1/6W 2.2K OHM J
RS44	24366101	CARBON FILM, 1/6W 100 OHM J
RT91	24366470	CARBON FILM, 1/6W 47 OHM J
RV09	24366101	CARBON FILM, 1/6W 100 OHM J
RV10	24366101	CARBON FILM, 1/6W 100 OHM J
RV11	24366101	CARBON FILM, 1/6W 100 OHM J
RV21	24366333	CARBON FILM, 1/6W 33K OHM J
RV22	24366103	CARBON FILM, 1/6W 10K OHM J
RV24	24366471	CARBON FILM, 1/6W 470 OHM J
RV30	24366750	CARBON FILM, 1/6W 75 OHM J
RV31	24366103	CARBON FILM, 1/6W 10K OHM J
RV32	24366750	CARBON FILM, 1/6W 75 OHM J
RV34	24366101	CARBON FILM, 1/6W 100 OHM J
RV38	24366750	CARBON FILM, 1/6W 75 OHM J
RV52	24366750	CARBON FILM, 1/6W 75 OHM J
RV61	24366103	CARBON FILM, 1/6W 10K OHM J
RV64	24366472	CARBON FILM, 1/6W 4.7K OHM J
RV66	24366750	CARBON FILM, 1/6W 75 OHM J
RV67	24366750	CARBON FILM, 1/6W 75 OHM J
RV71	24366750	CARBON FILM, 1/6W 75 OHM J
RV72	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV73	24366151	CARBON FILM, 1/6W 150 OHM J
RV74	24366101	CARBON FILM, 1/6W 100 OHM J
RV80	24366101	CARBON FILM, 1/6W 100 OHM J
RV88	24366181	CARBON FILM, 1/6W 180 OHM J
RV95	24366103	CARBON FILM, 1/6W 10K OHM J
RV98	24366750	CARBON FILM, 1/6W 75 OHM J
RZ01	24366272	CARBON FILM, 1/6W 2.7K OHM J
RZ02	24366272	CARBON FILM, 1/6W 2.7K OHM J
RZ03	24366102	CARBON FILM, 1/6W 1K OHM J
RZ04	24366102	CARBON FILM, 1/6W 1K OHM J
RZ05	24366102	CARBON FILM, 1/6W 1K OHM J
RZ06	24366102	CARBON FILM, 1/6W 1K OHM J

COILS & TRANSFORMERS

Location No.	Parts No.	Description
L101	23248229	COIL, CHOKE, TLN3040AC
L200	23103852	COIL, FILTER, TEM2028AH
L301	23103859	COIL, CHOKE, TEM2011

Location No.	Parts No.	Description
L302	23289101	COIL, PEAKING, TRF4101AF
L400	23289100	COIL, PEAKING, TRF4100AF
L401	23289101	COIL, PEAKING, TRF4101AF
L441	23233973	COIL, HORIZ LINEARITY, TLN2199AY
L442	23248219	COIL, CHOKE, TLN3328AH
L449	23103859	COIL, CHOKE, TEM2011
L461	23248237	COIL, CHOKE 19X30H 330MMH 2.0A TLN3333AF
L462	23231305	COIL, DEFLECTION YOKE, TDY-629SA
L462A	23199746	CONVER CONTROL BOARD, XH
L462B	23993696	B0ARD, CORRECTION
L462C	23993076	CONVER, CONV
L470	23103859	COIL, CHOKE, TEM2011
L501	23289844	COIL, PEAKING, TRF4470AT
L502	23289844	COIL, PEAKING, TRF4470AT
L702	23261974	COIL, FERRITE BEAD, HC5-035
L704	23103859	COIL, CHOKE, TEM2011
L705	23103859	COIL, CHOKE, TEM2011
L706	23289840	COIL, PEAKING, TRF4100AT
L811	23103859	COIL, CHOKE, TEM2011
L815	23103859	COIL, CHOKE, TEM2011
L817	23103937	FILTER, EM2004
L818	23280016	COIL, PEAKING, TRF4100AZ
L820	23103859	COIL, CHOKE, TEM2011
L823	23103859	COIL, CHOKE, TEM2011
L824	23103859	COIL, CHOKE, TEM2011
L834	23280019	COIL, PEAKING, TRF4330AZ
L835	23248257	COIL, CHOKE EI22 120MMH 2.0A TLN3503AH
L836	23248236	COIL, CHOKE, TLN3441AF
L840	23248073	COIL, CHOKE, TLN3299D
L850	23103859	COIL, CHOKE, TEM2011
L851	23289840	COIL, PEAKING, TRF4100AT
L871	23103859	COIL, CHOKE, TEM2011
L883	23221747	COIL, CHOKE, TRF9253D
L885	23248073	COIL, CHOKE, TLN3299D
L891	23103859	COIL, CHOKE, TEM2011
L892	23103859	COIL, CHOKE, TEM2011
L893	23248087	COIL, CHOKE, TLN3312D
L896	23103859	COIL, CHOKE, TEM2011
L897	23280016	COIL, PEAKING, TRF4100AZ
⚠ L901	23200382	COIL, DG, TSB-2389AG
L902	23289846	COIL, PEAKING, TRF4101AT
L903	23289846	COIL, PEAKING, TRF4101AT
L904	23289846	COIL, PEAKING, TRF4101AT
L905	23238712	COIL, PEAKING, TRF4150AJ
L906	23238712	COIL, PEAKING, TRF4150AJ
L907	23238712	COIL, PEAKING, TRF4150AJ
L908	23289840	COIL, PEAKING, TRF4100AT
L910	23289834	COIL, PEAKING, TRF41R0AT
L911	23289846	COIL, PEAKING, TRF4101AT
LA01	23289100	COIL, PEAKING, TRF4100AF
LB02	23262281	COIL, IF, TRF1197D
LJ901	23200471	COIL, TSB-2377AL
LR21	23103146	FILTER, EMI 200 OHM 50V 1.0A TEM2030AA
LR22	23103146	FILTER, EMI 200 OHM 50V 1.0A TEM2030AA
LR23	23103146	FILTER, EMI 200 OHM 50V 1.0A TEM2030AA
LR24	23103146	FILTER, EMI 200 OHM 50V 1.0A TEM2030AA
LR25	23103146	FILTER, EMI 200 OHM 50V 1.0A TEM2030AA
LR26	23103852	COIL, FILTER, TEM2028AH

Location No.	Parts No.	Description
LV01	23103852	COIL, FILTER, TEM2028AH
LV03	23103852	COIL, FILTER, TEM2028AH
LV05	23103852	COIL, FILTER, TEM2028AH
LV07	23103852	COIL, FILTER, TEM2028AH
LZ02	23289100	COIL, PEAKING, TRF4100AF
T400	23224364	TRANSFORMER, TLN2168AH
T401	23224371	TRANSFORMER, HORIZ DRIVE, TLN1080AH
⚠ T461	23236590	TRANSFORMER, HORIZ OUTPUT, TFB4155AD
⚠ T461Z	23236603	TRANSFORMER, HORIZ OUTPUT, TFB4155YD
⚠ T801	23211713	COIL, LINE FILTER, TRF3197AQ
⚠ T802	23211742	COIL, LINE FILTER TRF3209BT
T803	23211729	COIL, LINE FILTER TRF3232AQ
T804	23217539	TRANSFORMER, CONVERTER TPW3399BE
T806	23211738	COIL, LINE FILTER, TRF3228AL
⚠ T862	23217544	TRANSFORMER, CONVERTER TPW3488AS

SEMICONDUCTORS

Location No.	Parts No.	Description
Q201	23314204	TRANSISTOR, 2SC2412K,Q
Q202	A6541132	TRANSISTOR, 2SA1162-(Y)
Q203	A6541132	TRANSISTOR, 2SA1162-(Y)
Q204	A6541132	TRANSISTOR, 2SA1162-(Y)
Q205	A6541132	TRANSISTOR, 2SA1162-(Y)
Q230	23114756	TRANSISTOR, 2SC2482
Q301	23905610	IC, LA7846N
Q301B	70391356	SCREW, BITTB3X10 SZN
Q302	B0384625	IC, TA8859CP
Q303	23205081	TRANSISTOR, VCEO=-50V IC=-150MA 2SA1980-Y(BU
Q304	23314965	TRANSISTOR, KTC3198 Y
Q305	23906077	IC, OP-AMP DUAL POWER 8P TCA0372 DP1
Q360	23314204	TRANSISTOR, 2SC2412K,Q
Q370	23205081	TRANSISTOR, VCEO=-50V IC=-150MA 2SA1980-Y(BU
Q402	A6325413	TRANSISTOR, 2SC22350 (FA-1)
Q404	A6374144	TRANSISTOR, 2SC5570(FA)
Q404B	A8012650	INSULATOR, TRANSISTOR, AC263
Q404D	72471082	SCREW, 3X10MM
Q411	23314965	TRANSISTOR, KTC3198 Y
Q418	23314141	TRANSISTOR, 2SC3852
Q418B	70391356	SCREW, BITTB3X10 SZN
Q420	23314141	TRANSISTOR, 2SC3852
Q420B	70391355	SCREW, 3X8MM
Q421	23314965	TRANSISTOR, KTC3198 Y
Q430	23314141	TRANSISTOR, 2SC3852
Q430B	70391356	SCREW, BITTB3X10 SZN
Q432	23314965	TRANSISTOR, KTC3198 Y
Q460	23314850	TRANSISTOR, 2SA1788, E
Q460B	23037312	SCREW, BTBW3X12SZN
Q461	23314965	TRANSISTOR, KTC3198 Y
Q462	23314965	TRANSISTOR, KTC3198 Y
Q470	23114541	TRANSISTOR, 2SA1320
Q470	23314965	TRANSISTOR, KTC3198 Y
Q471	23314965	TRANSISTOR, KTC3198 Y
Q472	23314965	TRANSISTOR, KTC3198 Y
Q473	23314962	TRANSISTOR, KTA1266 Y
Q503	23314962	TRANSISTOR, KTA1266 Y
Q504	23314962	TRANSISTOR, KTA1266 Y
Q510	23000584	IC, TA1316AN
Q530	23314962	TRANSISTOR, KTA1266 Y
Q531	23314962	TRANSISTOR, KTA1266 Y
Q532	23314965	TRANSISTOR, KTC3198 Y
Q601	23318413	IC, LA4282
Q601B	70391356	SCREW, BITTB3X10 SZN

Location No.	Parts No.	Description
Q603	23314965	TRANSISTOR, KTC3198 Y
Q612	23314962	TRANSISTOR, KTA1266 Y
Q681	23114623	TRANSISTOR, 2SC2878-A(TEM
Q682	23114623	TRANSISTOR, 2SC2878-A(TEM
Q705	23314965	TRANSISTOR, KTC3198 Y
Q706	23314965	TRANSISTOR, KTC3198 Y
Q707	23114437	TRANSISTOR, 2SC752GTM-Y
Q709	23114623	TRANSISTOR, 2SC2878-A(TEM
Q710	23314962	TRANSISTOR, KTA1266 Y
Q711	23314911	TRANSISTOR, 2SB1569A E
Q712	23314914	TRANSISTOR, 2SD2400A E
Q719	23314965	TRANSISTOR, KTC3198 Y
Q720	23314965	TRANSISTOR, KTC3198 Y
Q801	23135026	IC, HYBRID STR-X6469
Q802	23314141	TRANSISTOR, 2SC3852
Q803	23906300	IC, STR-F6653
Q804	23114433	TRANSISTOR, 2SC1815-Y
Q805	23314965	TRANSISTOR, KTC3198 Y
Q806	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q807	23314965	TRANSISTOR, KTC3198 Y
Q821	23314965	TRANSISTOR, KTC3198 Y
⚠ Q826	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q827	23319693	IC, SE116N, LF4
Q831	23314141	TRANSISTOR, 2SC3852
Q831B	70391355	SCREW, 3X8MM
Q832	23905977	IC, PQ09RD11
Q832B	70391356	SCREW, BITTB3X10 SZN
Q835	23000546	IC, SWITCHING REG SI-8050SS
Q835B	70391356	SCREW, BITTB3X10 SZN
Q836	23314965	TRANSISTOR, KTC3198 Y
Q837	23314965	TRANSISTOR, KTC3198 Y
Q840	23318299	IC, L78MR05-FA
Q840B	70391356	SCREW, BITTB3X10 SZN
Q841	23314965	TRANSISTOR, KTC3198 Y
Q842	23314965	TRANSISTOR, KTC3198 Y
Q855	23314965	TRANSISTOR, KTC3198 Y
Q880	23314962	TRANSISTOR, KTA1266 Y
Q901	23314811	TRANSISTOR, 2SC5147
Q902	23314965	TRANSISTOR, KTC3198 Y
Q903	23314811	TRANSISTOR, 2SC5147
Q904	23314965	TRANSISTOR, KTC3198 Y
Q905	23314811	TRANSISTOR, 2SC5147
Q906	23314965	TRANSISTOR, KTC3198 Y
Q907	23114735	TRANSISTOR, 2SA102-Y(C)
Q910	23314965	TRANSISTOR, KTC3198 Y
Q911	23314965	TRANSISTOR, KTC3198 Y
Q912	23314962	TRANSISTOR, KTA1266 Y
Q913	23314962	TRANSISTOR, KTA1266 Y
Q914	23314965	TRANSISTOR, KTC3198 Y
Q917	23314965	TRANSISTOR, KTC3198 Y
Q918	23314962	TRANSISTOR, KTA1266 Y
Q919	23314965	TRANSISTOR, KTC3198 Y
Q920	23314962	TRANSISTOR, KTA1266 Y
Q921	23314965	TRANSISTOR, KTC3198 Y
Q3103	A6541132	TRANSISTOR, 2SA1162-(Y)
Q4200	23000370	IC, TA1318N
Q4460	23314965	TRANSISTOR, KTC3198 Y
Q4461	23314965	TRANSISTOR, KTC3198 Y
Q4465	23314962	TRANSISTOR, KTA1266 Y
QA01	23000935	IC, 8BIT MICRO COMPUTER 64PIN CXP750010-167
QA02	23906642	IC, AT24C64-10PC
QA05	23114437	TRANSISTOR, 2SC752GTM-Y
QA14	23314962	TRANSISTOR, KTA1266 Y
QB01	23314965	TRANSISTOR, KTC3198 Y

Location No.	Parts No.	Description
QB02	23314962	TRANSISTOR, KTA1266 Y
QB03	23114459	TRANSISTOR, RN1205
QB30	23314965	TRANSISTOR, KTC3198 Y
QB81	23114623	TRANSISTOR, 2SC2878-A(TEM
QB82	23314965	TRANSISTOR, KTC3198 Y
QB83	23314962	TRANSISTOR, KTA1266 Y
QB92	23314965	TRANSISTOR, KTC3198 Y
QB93	23314962	TRANSISTOR, KTA1266 Y
QB94	23314962	TRANSISTOR, KTA1266 Y
QB95	23314962	TRANSISTOR, KTA1266 Y
QB96	23314962	TRANSISTOR, KTA1266 Y
QD101	B0385647	IC, TA1217AN
QJ02	23314965	TRANSISTOR, KTC3198 Y
QJ03	A6369650	TRANSISTOR, 2SC4793
QJ04	23314965	TRANSISTOR, KTC3198 Y
QS01	23114623	TRANSISTOR, 2SC2878-A(TEM
QS02	23114623	TRANSISTOR, 2SC2878-A(TEM
QS03	23314965	TRANSISTOR, KTC3198 Y
QS04	23314965	TRANSISTOR, KTC3198 Y
QS07	23114478	TRANSISTOR, RN2004
QS08	23114623	TRANSISTOR, 2SC2878-A(TEM
QS09	23314965	TRANSISTOR, KTC3198 Y
QS10	23114623	TRANSISTOR, 2SC2878-A(TEM
QS11	23314965	TRANSISTOR, KTC3198 Y
QV01	23000369	IC, MM1495XD
QV07	23114461	TRANSISTOR, RN1203
QV08	23314965	TRANSISTOR, KTC3198 Y
QV11	23114461	TRANSISTOR, RN1203
QV13	23314965	TRANSISTOR, KTC3198 Y
QV51	23314965	TRANSISTOR, KTC3198 Y
QZ01	23314962	TRANSISTOR, KTA1266 Y
QZ02	23314962	TRANSISTOR, KTA1266 Y
D101	23316756	DIODE, ZENER, MTZJ33D
D120	23316716	DIODE, ZENER, MTZJ11B
D240	23118859	DIODE, 1SS133
D301	23118095	DIODE, ERB44-06
D302	23118095	DIODE, ERB44-06
D303	23316794	DIODE, SC570A
D306	23118859	DIODE, 1SS133
D312	23118859	DIODE, 1SS133
D370	23316672	DIODE, ZENER, MTZJ5.6B
D371	23118859	DIODE, 1SS133
D404	23357019	DIODE, FMV-3GMR
D406	23118094	DIODE, EU2A
D415	23118094	DIODE, EU2A
D419	23316716	DIODE, ZENER, MTZJ11B
D421	23316680	DIODE, ZENER, MTZJ7.5A
D422	23316726	DIODE, ZENER, MTZJ15C
D431	23316668	DIODE, ZENER, MTZJ5.1A
D432	23316668	DIODE, ZENER, MTZJ5.1A
D436	23118859	DIODE, 1SS133
D441	23316687	DIODE, ZENER, MTZJ9.1B
D460	23316472	DIODE, RGP10J
D463	23118859	DIODE, 1SS133
D464	23316741	DIODE, ZENER, MTZJ24A
D466	23316672	DIODE, ZENER, MTZJ5.6B
D467	23316472	DIODE, RGP10J
D468	23316718	DIODE, ZENER, MTZJ12A
D470	23316719	DIODE, ZENER, MTZJ12B
D470	23316720	DIODE, ZENER, MTZJ12C
D488	23118859	DIODE, 1SS133
D490	23118859	DIODE, 1SS133
D501	23118859	DIODE, 1SS133
D502	23118041	DIODE, MA111
D512	23316567	DIODE, ZENER, MA8051-L

Location No.	Parts No.	Description
D513	23118041	DIODE, MA111
D520	23316647	DIODE, ZENER, MTZJ2.0B
D601	23118859	DIODE, 1SS133
D602	23118859	DIODE, 1SS133
D603	23118859	DIODE, 1SS133
D604	23118859	DIODE, 1SS133
D611	23118859	DIODE, 1SS133
D612	23118859	DIODE, 1SS133
D613	23118859	DIODE, 1SS133
D615	23118859	DIODE, 1SS133
D617	23118859	DIODE, 1SS133
D618	23118859	DIODE, 1SS133
D704	23118859	DIODE, 1SS133
D705	23118859	DIODE, 1SS133
D715	23118859	DIODE, 1SS133
D721	23118859	DIODE, 1SS133
D801	23357041	DIODE, LN6SB60-F05
D803	23316672	DIODE, ZENER, MTZJ5.6B
D804	23316725	DIODE, ZENER, MTZJ15B
D805	23357012	DIODE, 1SS244
D806	23316472	DIODE, RGP10J
D807	23316746	DIODE, ZENER, MTZJ27B
D810	23316738	DIODE, ZENER, MTZJ22B
D811	23118859	DIODE, 1SS133
D815	23316754	DIODE, ZENER, MTZJ33B
D818	23316738	DIODE, ZENER, MTZJ22B
D821	23118859	DIODE, 1SS133
D828	23118859	DIODE, 1SS133
D830	23118338	DIODE, RU4AM LF-K2
D832	23316672	DIODE, ZENER, MTZJ5.6B
D833	23118859	DIODE, 1SS133
D834	23118859	DIODE, 1SS133
D835	23118859	DIODE, 1SS133
D836	23118094	DIODE, EU2A
D837	23118859	DIODE, 1SS133
D839	23316672	DIODE, ZENER, MTZJ5.6B
D840	23316391	DIODE, D3SB60(4103)
D841	23118859	DIODE, 1SS133
D842	23316724	DIODE, ZENER, MTZJ15A
D843	23316463	DIODE, RK46
D845	23316672	DIODE, ZENER, MTZJ5.6B
D847	23316678	DIODE, ZENER, MTZJ6.8B
D848	23316675	DIODE, ZENER, MTZJ6.2B
D849	23316717	DIODE, ZENER, MTZ J 11C
D850	23118052	DIODE, RU4Z LF-L1
D854	23118859	DIODE, 1SS133
D855	23316675	DIODE, ZENER, MTZJ6.2B
D883	23316803	DIODE, FMU-G16S
D891	23118052	DIODE, RU4Z LF-L1
D892	23316184	DIODE, FML-G12S
D893	23316672	DIODE, ZENER, MTZJ5.6B
D896	23316472	DIODE, RGP10J
D897	23316678	DIODE, ZENER, MTZJ6.8B
D899	24000656	VARISTOR, TNR15G471K
D904	23118859	DIODE, 1SS133
D905	23118859	DIODE, 1SS133
D906	23118859	DIODE, 1SS133
D907	23118859	DIODE, 1SS133
D908	23118859	DIODE, 1SS133
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D911	23118095	DIODE, ERB44-06
D921	23118095	DIODE, ERB44-06
D931	23118859	DIODE, 1SS133
D932	23118859	DIODE, 1SS133
D933	23118859	DIODE, 1SS133

Location No.	Parts No.	Description
D934	23118859	DIODE, 1SS133
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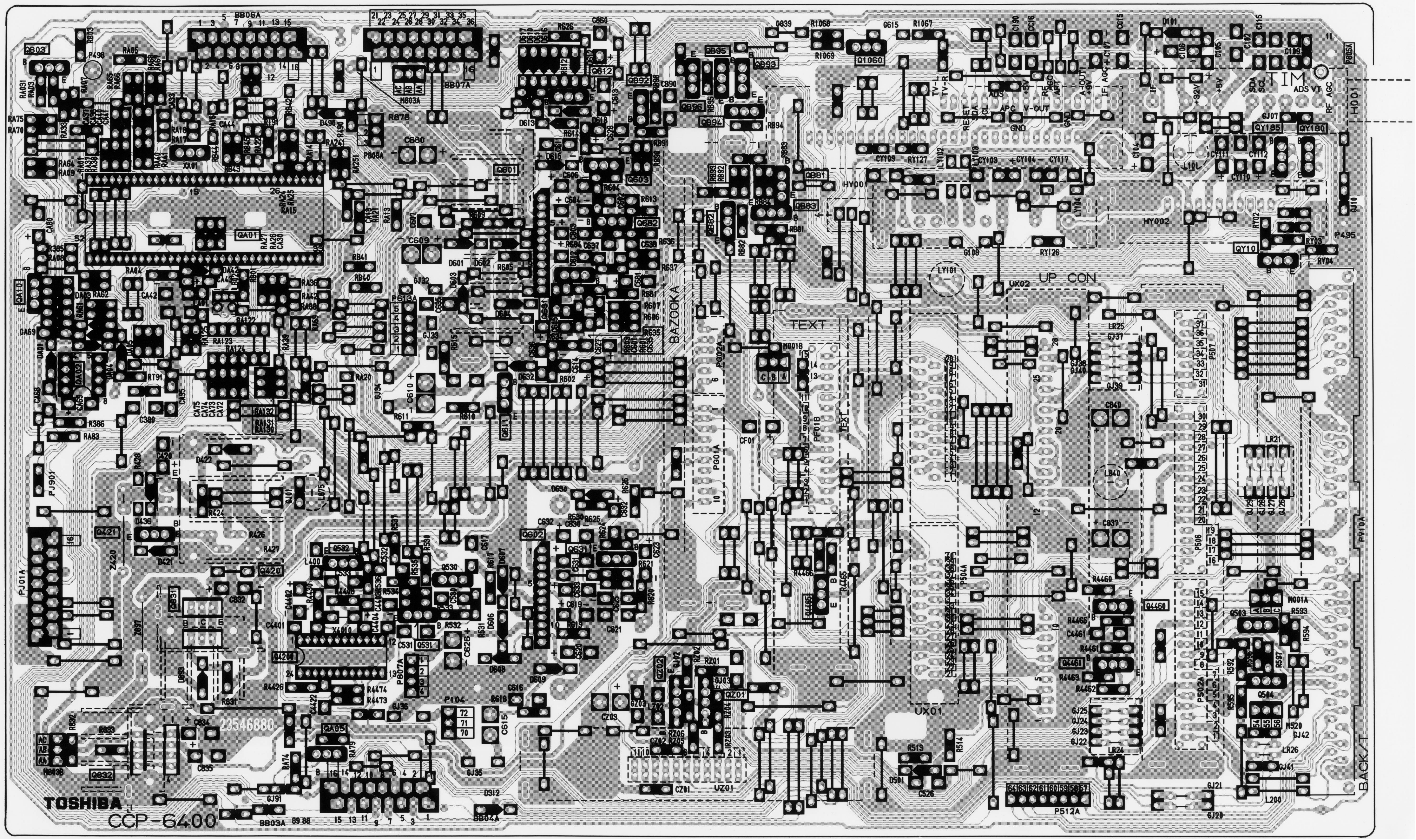
D942	23118859	DIODE, 1SS133
D943	23118859	DIODE, 1SS133
D946	23118859	DIODE, 1SS133
D963	23118859	DIODE, 1SS133
D964	23118859	DIODE, 1SS133
D965	23118859	DIODE, 1SS133
D966	23118859	DIODE, 1SS133
DB01	A8636650	LED S-RED GRN IV=1.5M MIN
DB30	23118859	DIODE, 1SS133
DJ01	23118859	DIODE, 1SS133
DJ02	23316726	DIODE, ZENER, MTZJ15C
DV01	23316687	DIODE, ZENER, MTZJ9.1B
DV02	23316687	DIODE, ZENER, MTZJ9.1B
DV03	23316687	DIODE, ZENER, MTZJ9.1B
DV04	23316687	DIODE, ZENER, MTZJ9.1B
DV10	23118859	DIODE, 1SS133
DV19	23316687	DIODE, ZENER, MTZJ9.1B
MISCELLANEOUS		
B207	23037312	SCREW, BTBW3X12SZN
B209	23030937	SCREW, 3X12
B217	23710161	SCREW, BITE4X16SBZ 2979XPI , 2979XPI
B801A	23037312	SCREW, BTBW3X12SZN
BB05A	23713201	CONNECTOR, 16P
BB05B	23713202	CONNECTOR, 16P
BB06A	23713201	CONNECTOR, 16P
BB06B	23713202	CONNECTOR, 16P
BB07A	23713201	CONNECTOR, 16P
BB07B	23713202	CONNECTOR, 16P
BB08A	23713201	CONNECTOR, 16P
BB08B	23713202	CONNECTOR, 16P
E912	23528016	RUBBER, WEDGE, MEDIUM W10H15L50, TRWMED01T
E947	23965900	TAPE, GLASS-CLOTH, W/ADHESIVE W=18 T=0.18
E964	23845511	BAND
⚠ F470	23144829	FUSE, CARTRIDGE 5.2X20 250V 1.0A
F470A	23165433	FUSE HOLDER, 5.2 SOC
⚠ F801	23144458	FUSE, 5.0A 250V
F801A	23165433	FUSE HOLDER, 5.2 SOC
⚠ F802	23144508	FUSE, CARTRIDGE 5.2X20, 250V 4.0A
F802A	23165433	FUSE HOLDER, 5.2 SOC
⚠ F803	23144832	FUSE, CARTRIDGE 5.2X20, 250V 2.0A
F803A	23165433	FUSE HOLDER, 5.2 SOC
G306	24366222	CARBON FILM, 1/6W 2.2K OHM J
G308	24366472	CARBON FILM, 1/6W 4.7K OHM J
G311	24366332	CARBON FILM, 1/6W 3.3K OHM J
G313	24366363	CARBON FILM, 1/6W 36K OHM J
G401	23103859	COIL, CHOKE, TEM2011
G403	23103859	COIL, CHOKE, TEM2011
G406	23103859	COIL, CHOKE, TEM2011
G430	23118094	DIODE, EU2A
G465	23357070	DIODE, ZENER, HZS5.6N B2
G615	23238714	COIL, PEAKING, TRF4100AJ
G616	23238714	COIL, PEAKING, TRF4100AJ
G802	23238714	COIL, PEAKING, TRF4100AJ
G812	23103859	COIL, CHOKE, TEM2011
G837	23103859	COIL, CHOKE, TEM2011
G891	23248227	COIL, CHOKE, TLN3481AD
GA69	24366470	CARBON FILM, 1/6W 47 OHM J
GZ03	23289841	COIL, PEAKING, TRF4150AT
KB01	23904946	IC, RPM-676CBR-S
M461B	23504203	CABLE, FOCUS

Location No.	Parts No.	Description
M461C	23504204	CABLE, SCREEN
N724	23965900	TAPE, GLASS-CLOTH, W/ADHESIVE W=18 T=0.18
P403	23845834	LEAD CLAMPER
P503A	23903024	SOCKET, B-B 1.5MM 20P JST-JDV JDV-R20LB-10-1
P503B	23368633	PLUG, B-B 1.5MM 20P JST-JDV JDV-PS20LB-10-1
P504A	23903024	SOCKET, B-B 1.5MM 20P JST-JDV JDV-R20LB-10-1
P504B	23368633	PLUG, B-B 1.5MM 20P JST-JDV JDV-PS20LB-10-1
P505	23902655	CONNECTOR, 15P
P506	23902655	CONNECTOR, 15P
P507	23902852	SOCKET, B-B 7P2.5MM JST-JL
P661	23365444	JACK, EARPHONE, D3.5 HOSIDEN
⚠ P801	23372023	POWER CORD, UK (29AZ8UE)
⚠ P801	23372026	POWER CORD (29AZ8UAE)
P801A	23164729	CONNECTOR, PLUG, 3P 5MM B JALCO YKF21-0027
P801B	23164729	CONNECTOR, PLUG, 3P 5MM B JALCO YKF21-0027
P803A	23164729	CONNECTOR, PLUG, 3P 5MM B JALCO YKF21-0027
P803B	23164729	CONNECTOR, PLUG, 3P 5MM B JALCO YKF21-0027
P910	23164725	PLUG, 2P
PB01A	23902062	CONNECTOR, SOCKET, B-B
PB01B	23368004	CONNECTOR, PLUG B-B 5P 2.5MM JST
PB02A	23902654	CONNECTOR, SOCKET, B-B
PB02B	23367723	CONNECTOR, 4P
PF01B	23902655	CONNECTOR, 15P
PV01	23365966	JACK, 1S6P
PV03	23365837	JACK, 1S6P
PV10A	23903040	SOCKET, B-B 2MM 56P TAIKO
PV10B	23368646	PLUG, B-B 2MM 56P TAIKO
⚠ S801	23344429	SWITCH, POWER PUSH 2C1P TV8 AAP8Y22111N
SA01	23145227	SWITCH, PUSH, 1C1P
SA02	23145227	SWITCH, PUSH, 1C1P
SA03	23145227	SWITCH, PUSH, 1C1P
SA04	23145227	SWITCH, PUSH, 1C1P
SA05	23145227	SWITCH, PUSH, 1C1P
SA06	23145227	SWITCH, PUSH, 1C1P
SJ01	23146958	RELAY, 2C 1A DC12V OMRON
⚠ SR81	23146573	RELAY, DC12V 0.53W, OMR G5PA-1-M
SR82	23146573	RELAY, DC12V 0.53W, OMR G5PA-1-M
SR83	23146570	RELAY, DC12V, 2M OMR, G5PA-2 DC12
UM01	23148774	MODULE, MVPC02, VIDEO CHROMA IMP.
UX02	23148783	SCAN CONVERTER MODUL, DFS+PROG
UZ01	23148747	MODULE, MYCJ32, 3D-YCS COMB
⚠ V901A	23903147	SOCKET, ISH46S-E ICE
V901B	23102456	FUKA MAGNET, CHEVRON TAKECHI MAG4006
V901D	23948535	SHEET, MAGNETIC FERRITE
V901E	23948536	SHEET, MAGNETIC FERRITE
V901M	23102480	MAGNET, PURITY CONVERGENCE, MAG-1111
X4010	23153721	CERAMIC RESONATOR, 503KHZ
X4402	23153721	CERAMIC RESONATOR, 503KHZ
XA01	23153497	CERAMIC RESONATER, TCR1080AM
Z420	23144539	PROTECTOR, 491SERIES 125V 2A
Z430	23144536	PROTECTOR, 491SERIES 125V 1A
Z889	23144543	PROTECTOR, 491SERIES 125V 5A
Z890	23144543	PROTECTOR, 491SERIES 125V 5A

Location No.	Parts No.	Description
Z891	23144543	PROTECTOR, 491SERIES 125V 5A
Z892	23144543	PROTECTOR, 491SERIES 125V 5A
Z897	23144539	PROTECTOR, 491SERIES 125V 2A
ZY04	23148779	MODULE, TEXT MODULE PAINTER2 M-TEXT-P2
PC BOARD ASSEMBLIES		
* U101	23786943	BACK T BOARD, PD0362 (29AZ8UE)
* U101	23787027	BACK T BOARD, PD0419 (29AZ8UA)
* U102	23786945	CHIP BEP BOARD, PD0364
* U103	23786946	A PRO BOARD, PD0365
* U901	23786944	CRT D BOARD, PD0363
* U902	23786930	SIGNAL BOARD, PD0358
* U903	23786931	POWER BOARD, PD0359 (29AZ8UE)
* U903	23787272	POWER BOARD, PD0527 (29AZ8UA)
* U904	23786934	SUB POWER BOARD, PD0360
* U905	23786935	DEF BOARD, PD0361
* U906A	23786947	CONT BOARD, PD0366-1
* U906B	23786954	RMT BOARD, PD0366-2
* U906C	23786955	LED BOARD, PD0366-3
PICTURE TUBE		
⚠ V901	23312883	PICTURE TUBE, A68LTF356X, 27VPFV2
TUNER		
H001	23321426	TUNER, EC955W1
ACCESSORIES		
K902	23306426	REMOCON HAND UNIT IR, CTVPAL CT-90090
Y101	23565391	OWNER'S MANUAL, ENGLISH, 29AZ8UA
Y101A	23565391	OWNER'S MANUAL, ENGLISH, 29AZ8UE
Y101B	23565392	OWNER'S MANUAL, MANDAR/CA, 29AZ8UE
Y109	23945015	BAG, POLYETHYLENE COVER 250X400
CABINET PARTS		
A201	23540909	COVER, FRONT COVER
A262	23428009	DOOR, DOOR PROPER
A265	23445554	BUTTON, BUTTON POWER
A267	23836867	SPRING
A271	23436774	HANDLE, HANDLE
⚠ A401	23540911	COVER, BACK COVER PROPER
A501	23035412	SCREW, BTB4X12SZN
A503	23035412	SCREW, BTB4X12SZN
A701A	23064652	CARTON, CASE TOP
A701B	23064653	CARTON, CASE BOTTOM
A702A	23946280	PACKING, TOP PACKING
A702B	23946281	PACKING, BOTTOM PACKING 2

SIGNAL BOARD PD0358

BOTTOM (FOIL) SIDE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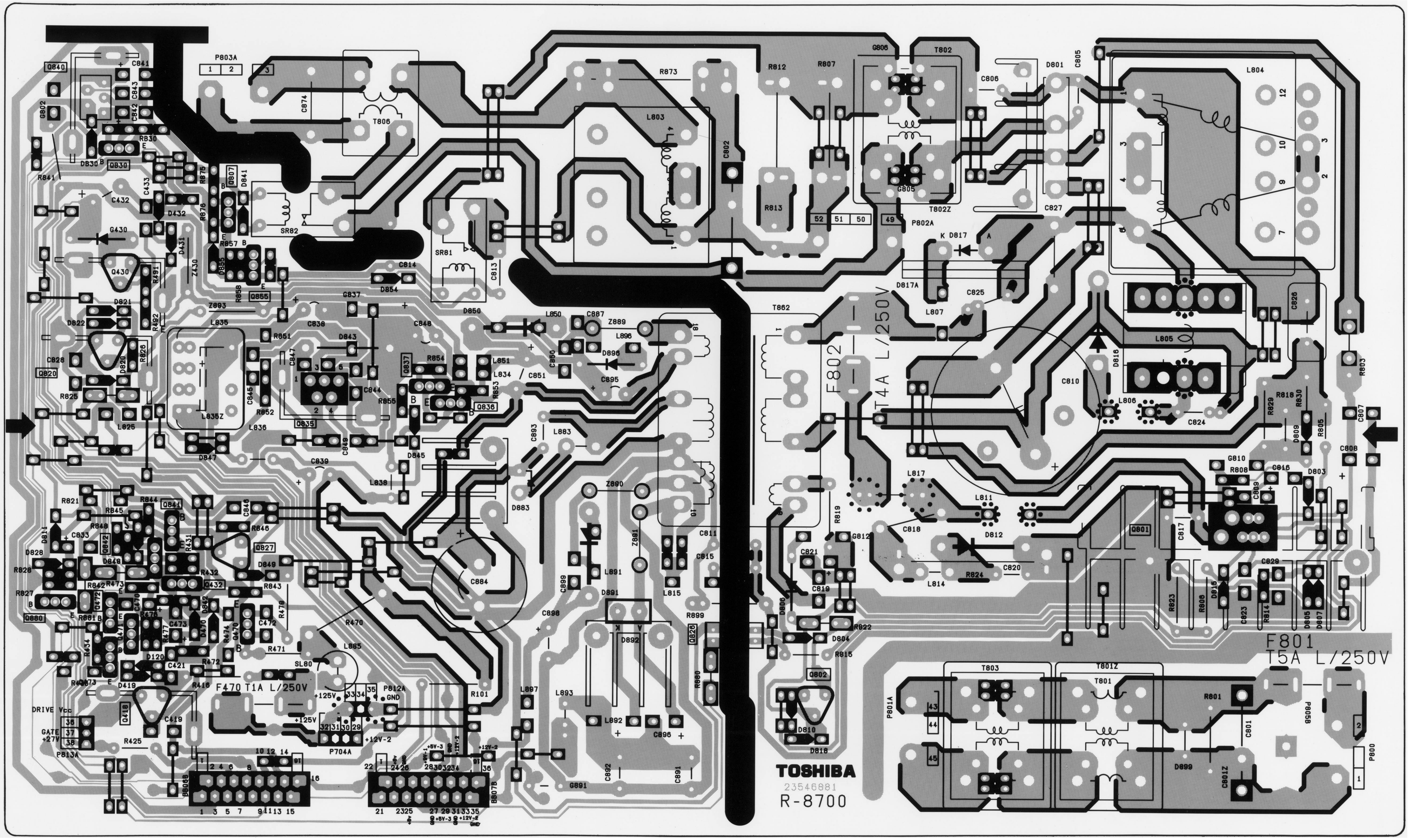
UX01
UX02
BACK/T
TIM
HY001
HY002
BB06A
BB07A
BB03A
BB04A
PJ01A
PJ901
P512A
P506
P507
PV10A
P495
H001

POWER BOARD PD0359

BOTTOM (FOIL) SIDE



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SR81
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R873
R812
R807
Q806
T802
T802Z
Q805
P802A
D801
C806
L804
C827
D817
D817A
C825
L807
T862
F802 T4A L/250V
L805
D816
C810
L806
C824
R818
R829
R830
D809
R805
C807
R803
Q810
R808
C816
D803
C808
Q801
C817
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C818
D812
R824
C820
L814
F801 T5A L/250V
T803
T801Z
T801
R801
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P805B
C801
C801Z
D899
P800
TOSHIBA
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C884
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B807B
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GATE +27V
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R873
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R846
Q827
D849
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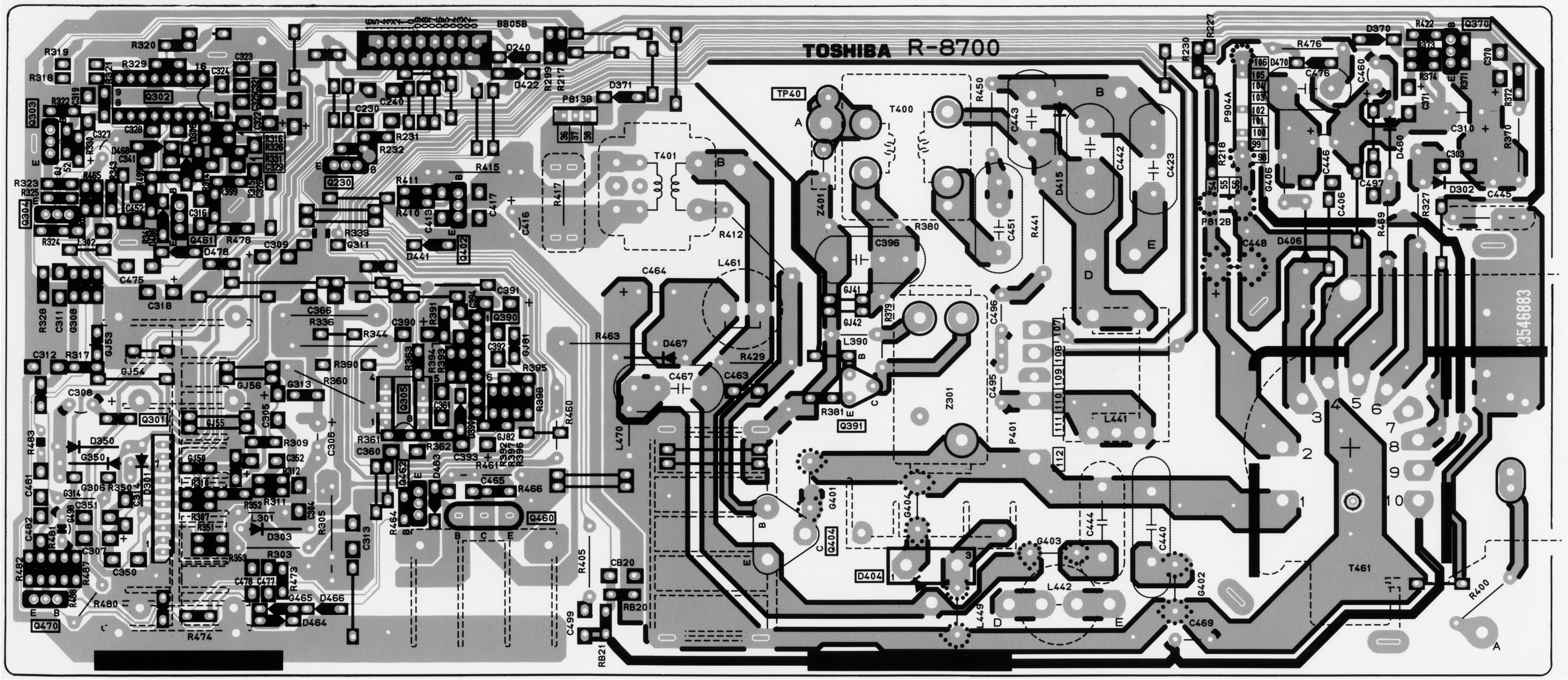
DEF BOARD PD0361

BOTTOM (FOIL) SIDE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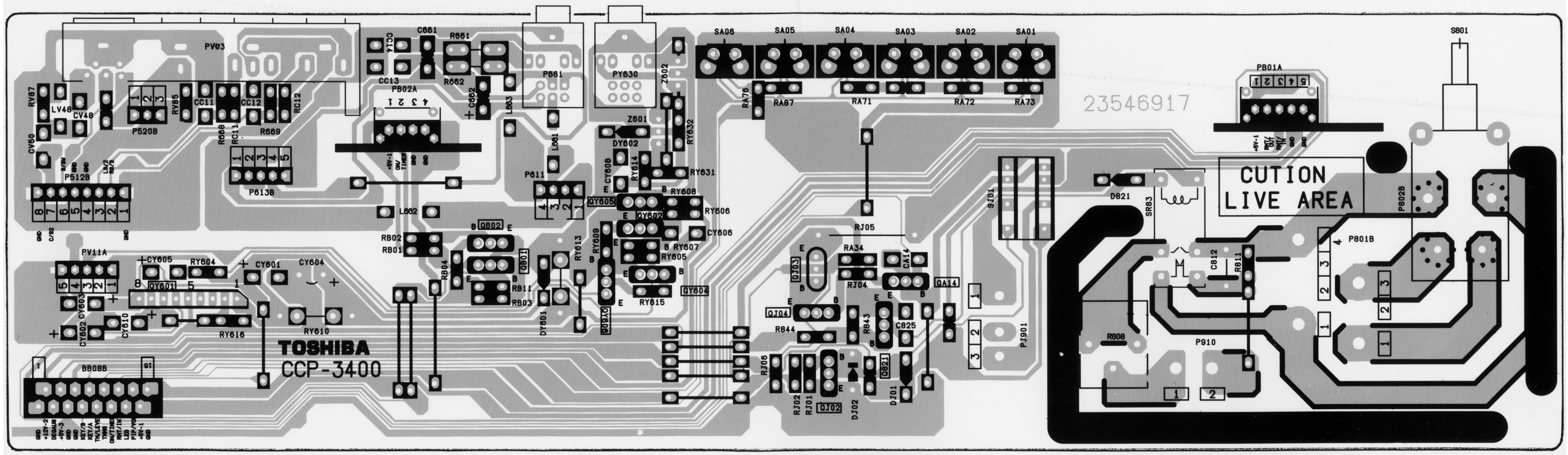
CONTROL BOARD PD0366-1

BOTTOM (FOIL) SIDE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LIVE AREA
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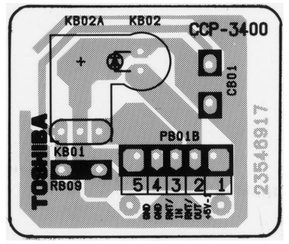
SA04
SA03
SA02
SA01
S801
PB01A
PB02A

LED BOARD PD0366-2

BOTTOM (FOIL) SIDE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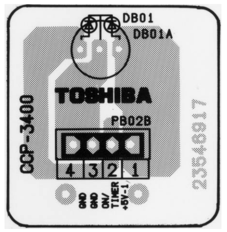
RMT BOARD PD0366-3

BOTTOM (FOIL) SIDE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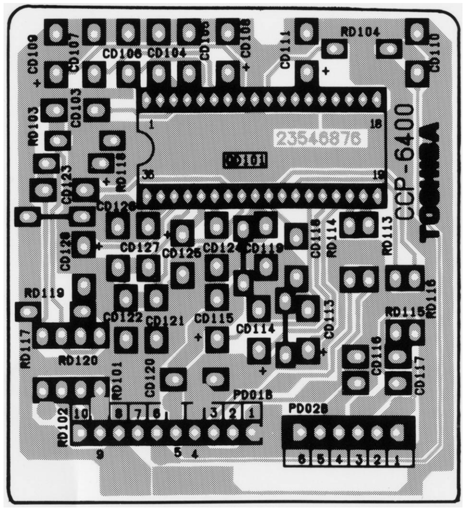
A-PRO BOARD PD0365

BOTTOM (FOIL) SIDE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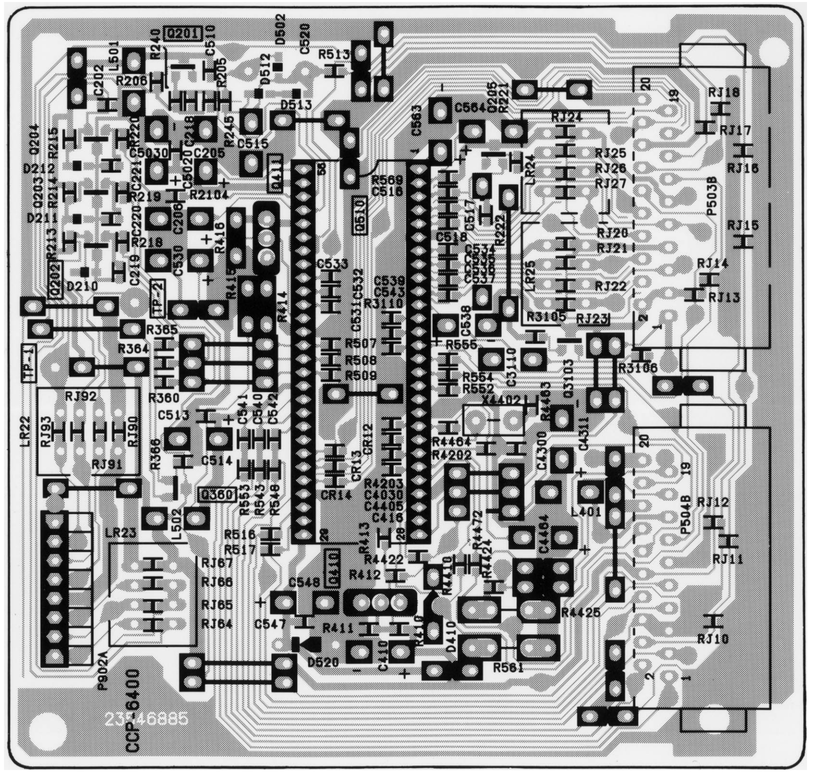
PD01B
PD02B

BEP BOARD PD0364

BOTTOM (FOIL) SIDE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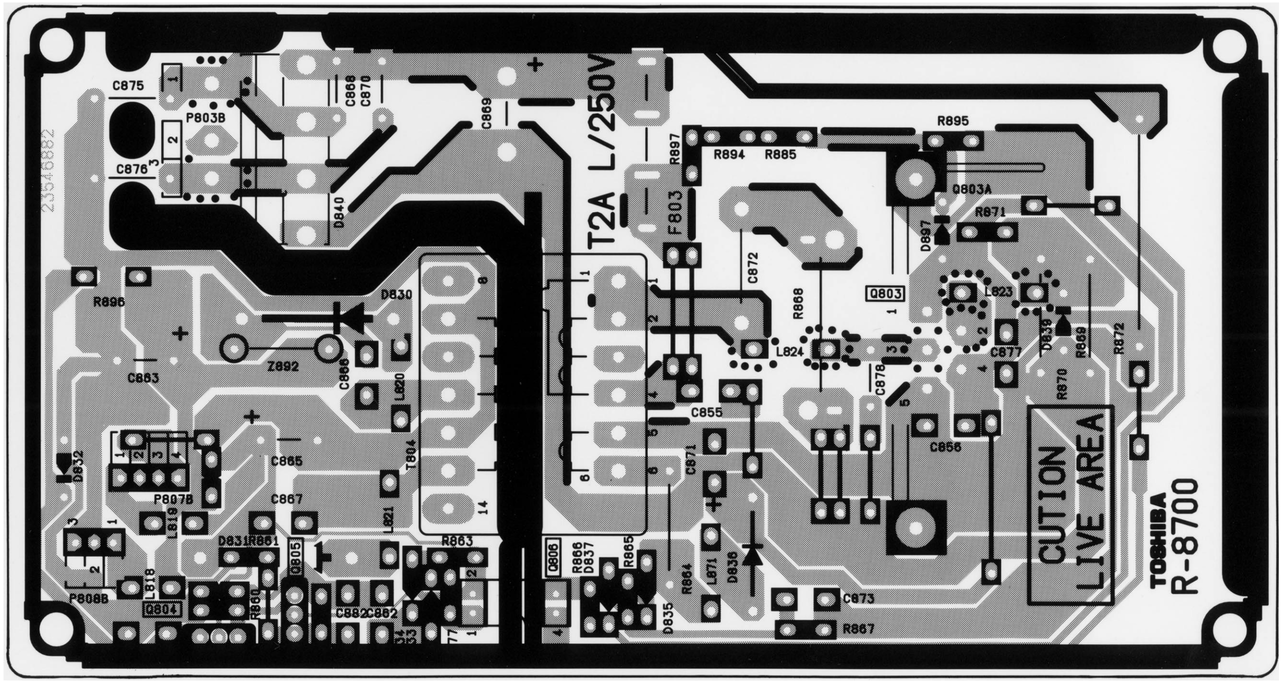
SUB BOARD PD0360

BOTTOM (FOIL) SIDE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CUTION
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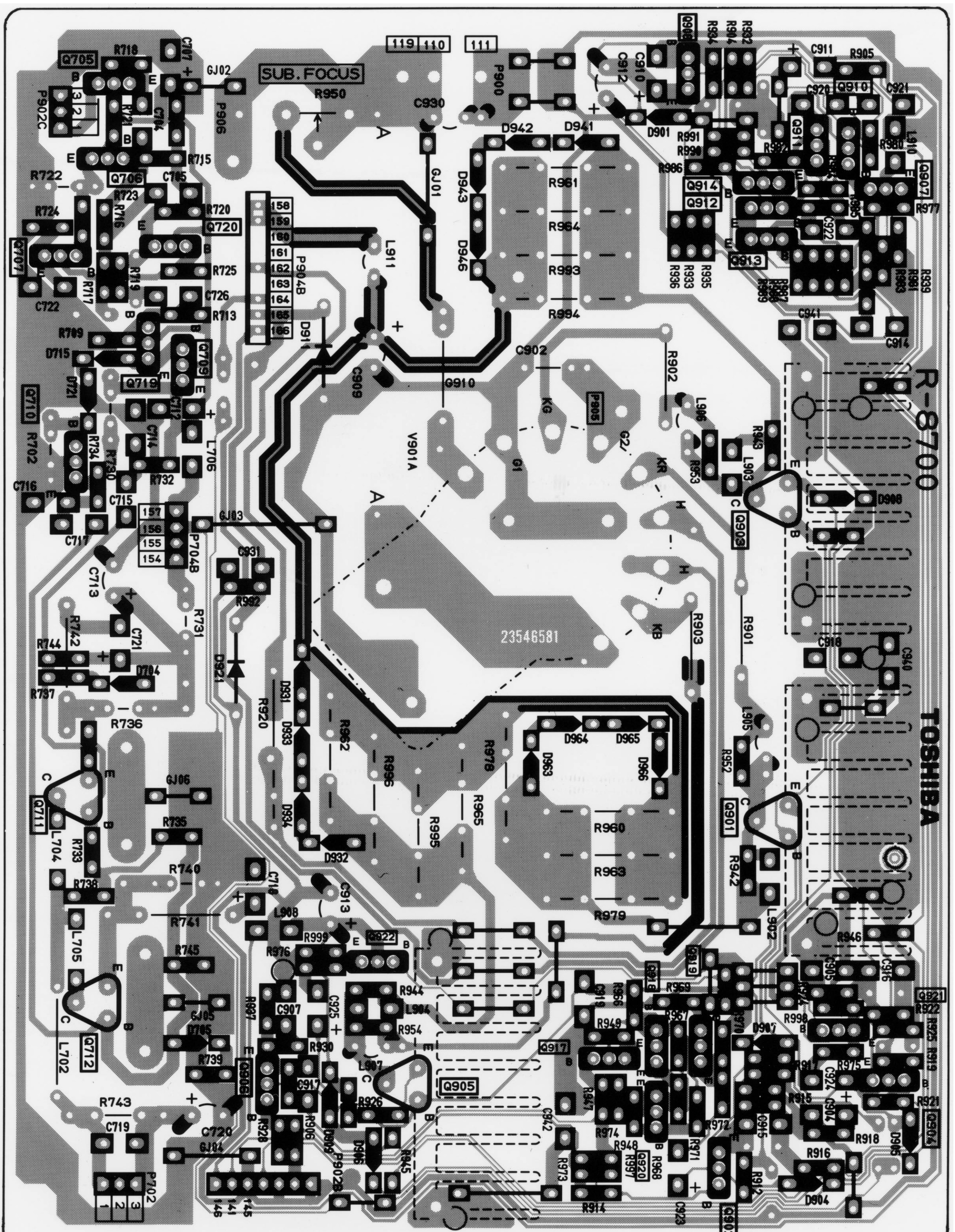
TOSHIBA
R-8700

CRTD-VM BOARD PD0363

BOTTOM (FOIL) SIDE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R993
R994
L911
D911
C909
Q910
C902
R902
V901A
G1
G2
KG
KR
KB
P905
L906
R953
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Q903
D908
R-8700
TOSHIBA
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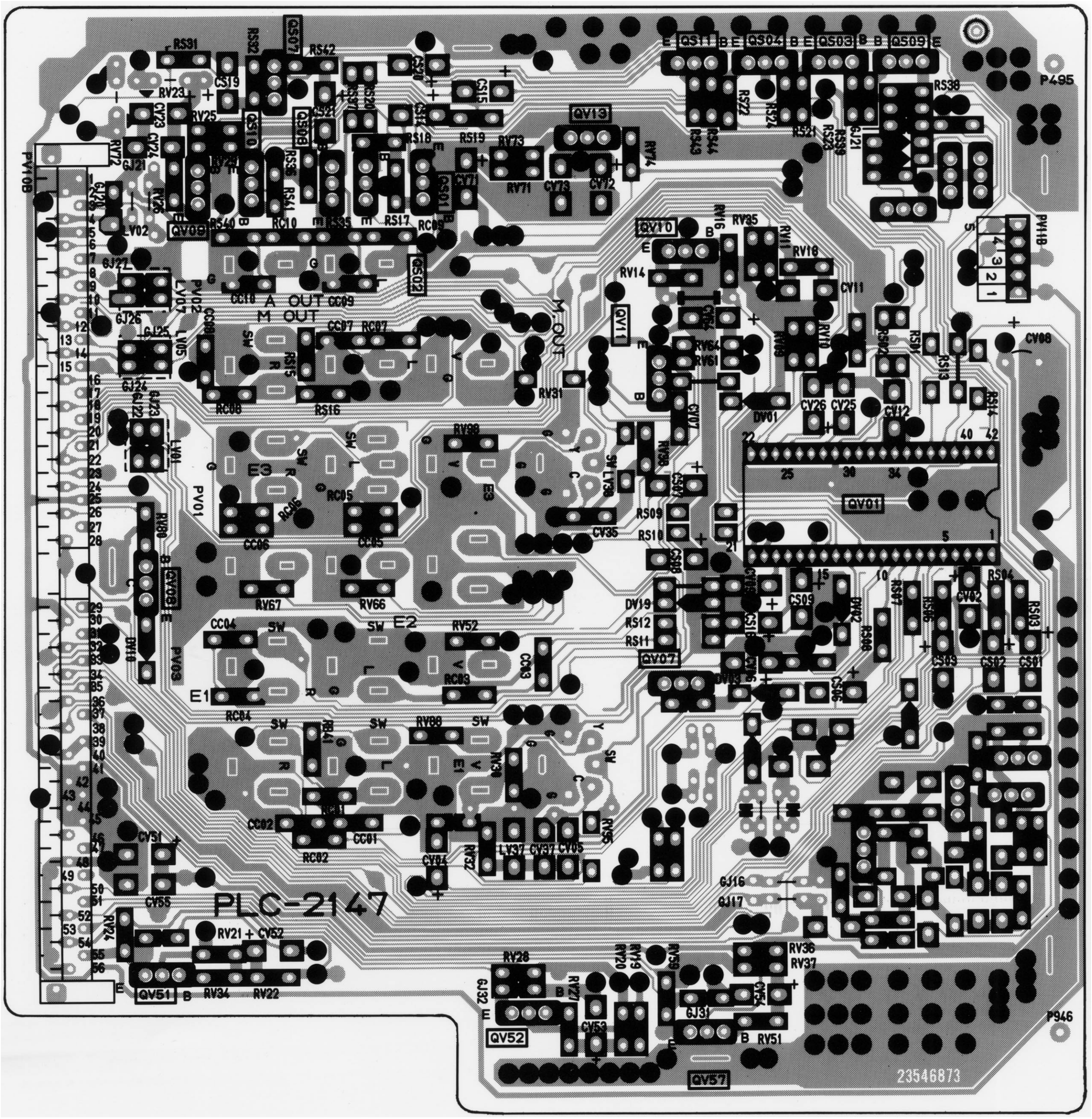
R952
Q901
R942
L902
C918
C940
23546581
D964
D965
D963
D966
R960
R963
R979
R978
R996
R995
R965
R962
D931
D933
D934
D932
D921
R920
R992
C931
GJ03
Q705
R718
C707
GJ02
P902C
R721
C714
R715
Q706
C705
R722
R723
R716
R720
Q720
R724
Q707
R717
R719
R725
C726
R713
C722
R709
D715
D721
Q719
Q709
C712
Q710
R702
R734
R730
C714
R732
L706
C716
C715
C717
157
156
155
154
P704B
158
159
160
161
162
163
164
165
166
P904B
C713
R731
R742
C721
R744
D704
R737
R736
GJ06
Q711
L704
R733
R735
R740
R738
R741
L705
R745
C716
L908
C913
R999
Q922
R976
R944
L904
R954
R937
C907
C925
GJ05
D705
R739
R930
Q906
C917
L907
Q905
R926
R743
C719
C720
GJ04
R928
R906
D902
D906
R945
P902B
P702
146
141
145
C911
R905
Q908
R934
R904
R932
C910
C912
D901
Q910
C920
C921
R991
R990
R986
Q911
Q914
Q912
R982
Q907
R977
L910
R980
C922
Q913
R936
R933
R935
R939
R983
R981
R989
R987
C941
C914
Q918
Q919
R966
C919
R969
R949
R967
R970
D907
R990
Q921
R922
R925
R919
Q917
R947
R975
C924
R917
R915
R921
Q904
Q915
R972
R974
R948
R997
Q920
R968
R971
R973
C942
R918
R916
D905
D904
R912
R914
C923
Q902
R946
C916
R905

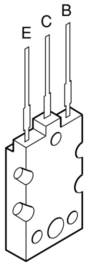
BACK/T BOARD PD0362

BOTTOM (FOIL) SIDE

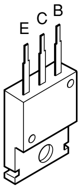

PLC-2147
23546873
P495
P946
PV10B
PV11B
QV01
A OUT
M OUT
E1
E2
E3

TERMINAL VIEW OF TRANSISTORS

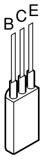
①
2SD2253
(old)
2SC5243



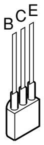
②
2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



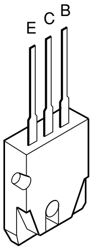
③
2SC752GTM
2SC2482
2SC2655
2SC4721P



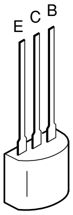
④
2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



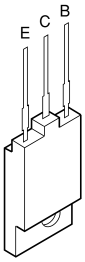
⑤
2SA1788



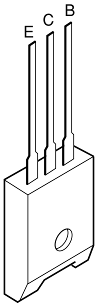
⑥
RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦
2SD1554
2SD2253
2SD1556
2SC5143
2SD2553
2SC5570



⑧
ON4409



MEMO

MEMO

SPECIFICATIONS (Representative: 29AZ8UE)		
Rated voltage		~ 110 V – 240 V, 50/60 Hz
Dimensions (Width × Depth × Height)		782mm × 488 mm × 588mm
Mass		(47.5)kg (Approx)
Picture tube		Type 29, flat super crystal picture tube (72 cm) overall picture tube measured diagonally (68 cm) viewable picture measured diagonally 106° deflection
Television system (Aerial input)	Channel coverage	**System** / **VHF** / **UHF** / **CATV (Channel)** PAL B/G (CCIR) 2 – 12 21 – 69 X ~ Z+2, S1 ~ S41 PAL I (UK) — 21 – 69 — PAL D/K (CHINA) 1 – 12 13 – 57 Z–1 ~ Z–38 SECAM B/G (CCIR) 2 – 12 21 – 69 X ~ Z+2, S1 ~ S41 SECAM D/K (OIRT) 1 – 12 21 – 69 X1 ~ X19 NTSC M (JAPAN) 1 – 12 13 – 62 M1 ~ M10, S1 ~ S41
	Special RF signal	**Colour system** / **Sound system** NTSC4.43 5.5/6.0/6.5 MHz PAL 60Hz 5.5/6.0/6.5 MHz
Colour system		PAL/SECAM/NTSC4.43/NTSC3.58
Sound output		MAIN: 10W + 10W
Accessories		• Remote controller × 1 • Batteries (R03, AAA) × 2

* Pease refer to owner's manual in details.

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM

MODEL : 29AZ8UE / 29AZ8UA

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   —+┤├— Electolytic capacitor —Ⓜ┤├— Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

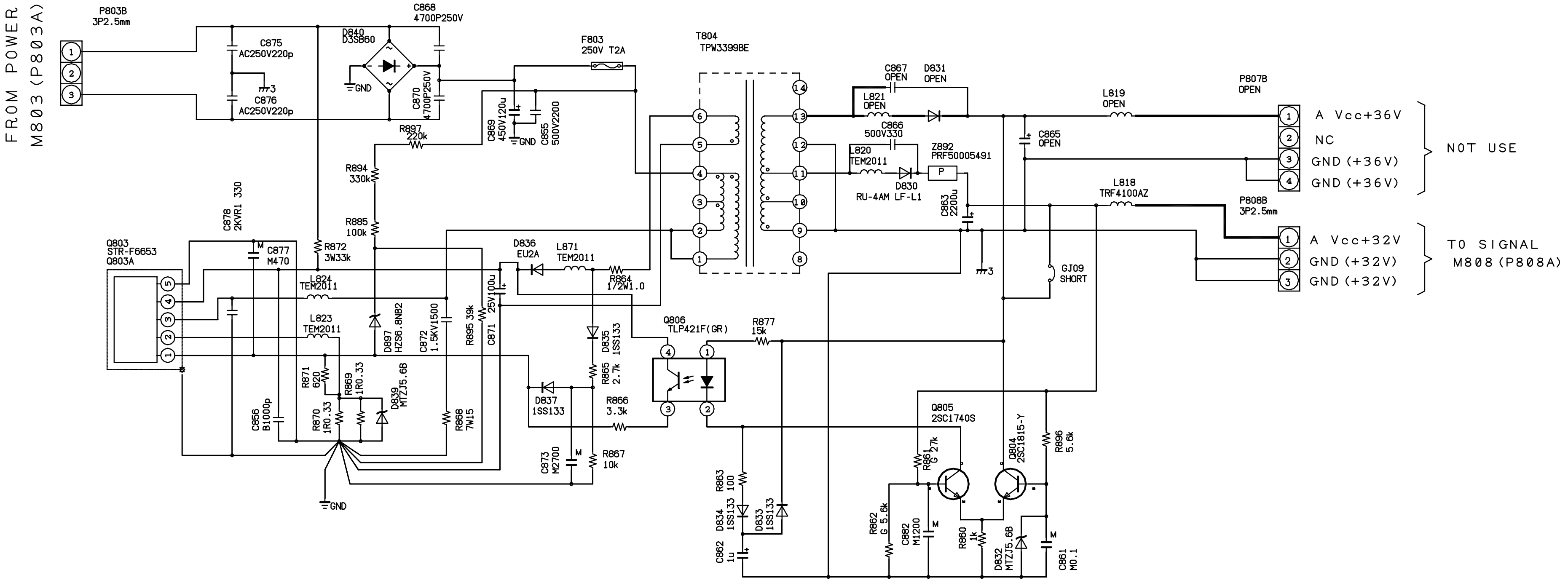
- SUB POWER Circuit
- BEP Circuit
- M-TEXT-P2 (TELETEXT PAINTER2) Circuit
- A-PRO Circuit
- POWER Circuit
- CONTROL /RMT / LED Circuit
- SIGNAL Circuit
- DEF Circuit
- BACK/T, CRTD-VM Circuit

1 2 3 4 5 6 7 8

A

B

U904 SUB POWER BOARD PD0360


FROM POWER
M803 (P803A)
P803B
3P2.5mm
C875
AC250V220p
C876
AC250V220p
3
D840
D3SB60
GND
C868
4700P250V
C870
4700P250V
F803
250V T2A
C869
450V120u
GND
C855
500V2200
R897
220k
R894
330k
R885
100k
C878
2KVR1 330
Q803
STR-F6653
Q803A
C877
M470
M
R872
3W33k
L824
TEM2011
L823
TEM2011
D897
HZS6.8NB2
C872
1.5KV1500
R895 39k
C871
25V100u
D836
EU2A
L871
TEM2011
R864
1/2W1.0
D835
1SS133
R865
2.7k
D837
1SS133
R866
3.3k
C873
M2700
M
R867
10k
R871
620
R869
1R0.33
R870
1R0.33
D839
MTZJ5.6B
C856
B1000p
R868
7W15
GND
T804
TPW3399BE
14
13
12
11
10
9
8
6
5
4
3
2
1
C867
OPEN
D831
OPEN
L821
OPEN
C866
500V330
L820
TEM2011
D830
RU-4AM LF-L1
Z892
PRF50005491
P
C863
2200u
3
C865
OPEN
L819
OPEN
L818
TRF4100AZ
GJ09
SHORT
P807B
OPEN
1 A Vcc+36V
2 NC
3 GND (+36V)
4 GND (+36V)
NOT USE
P808B
3P2.5mm
1 A Vcc+32V
2 GND (+32V)
3 GND (+32V)
TO SIGNAL
M808 (P808A)
Q806
TLP421F(GR)
R877
15k
R863
100
D834
1SS133
D833
1SS133
C862
1u
Q805
2SC1740S
R861
G 27k
R862
G 5.6k
C882
M1200
M
R860
1k
Q804
2SC1815-Y
D832
MTZJ5.6B
R896
5.6k
C861
M0.1
M

C

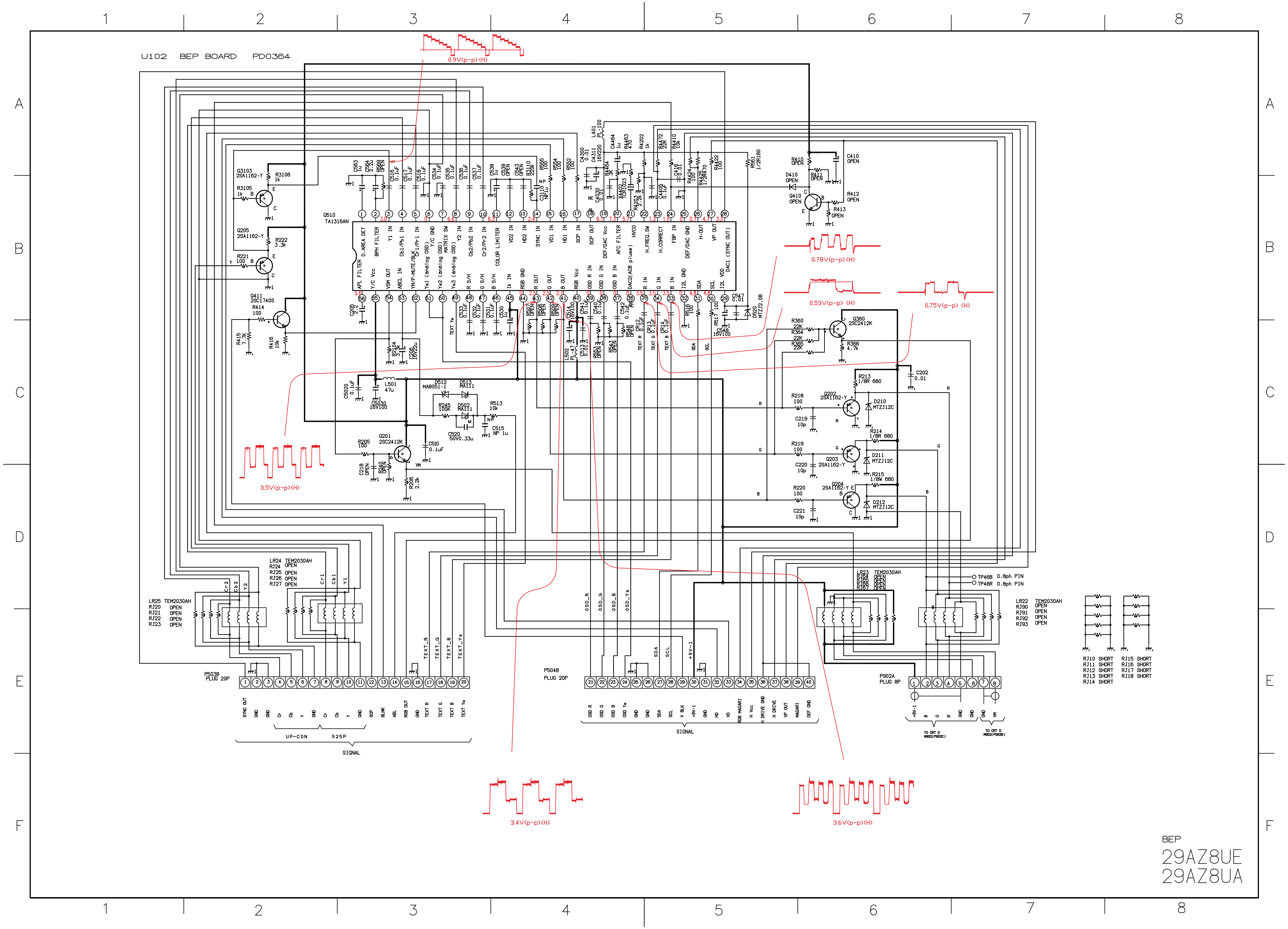
D

E

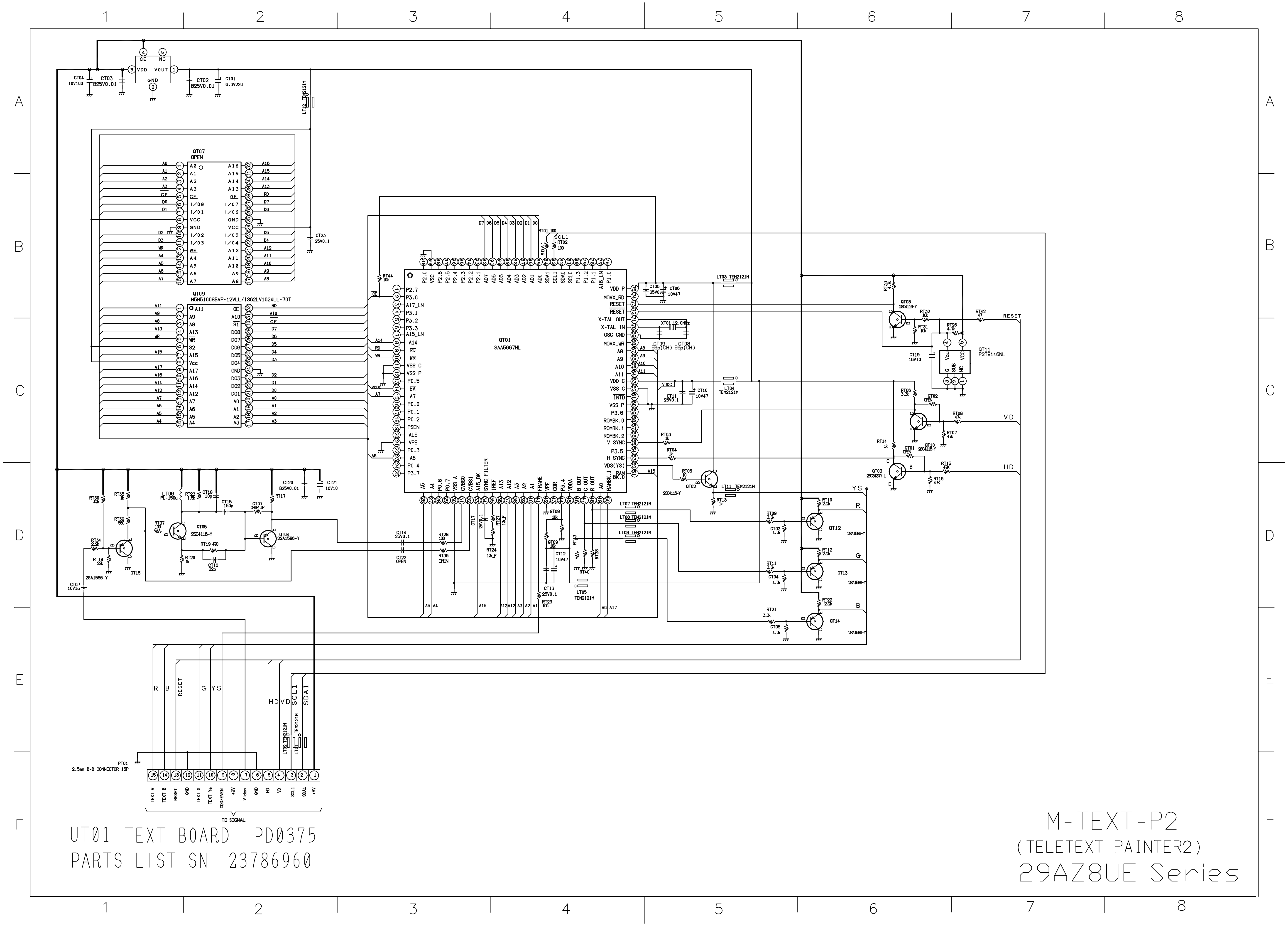
F

SUB POWER
29AZ8UE
29AZ8UA

1 2 3 4 5 6 7 8


U102 BEP BOARD PD0364
Q510 TA1316AN
0.9V(p-p)(H)
0.78V(p-p)(H)
0.53V(p-p)(H)
0.75V(p-p)(H)
3.5V(p-p)(H)
3.4V(p-p)(H)
3.6V(p-p)(H)
Q3103 2SA1162-Y
Q205 2SA1162-Y
Q411 2SC1740S
Q201 2SC2412K
Q360 2SC2412K
Q410 OPEN
Q202 2SA1162-Y
Q203 2SA1162-Y
Q204 2SA1162-Y
D210 MTZJ12C
D211 MTZJ12C
D212 MTZJ12C
D520 MTZJ2.0B
D512 MA8051-1
D513 MA111
D502 MA111
L501 47u
L401
LR25 TEM2030AH
LR24 TEM2030AH
LR23 TEM2030AH
LR22 TEM2030AH
P503B PLUG 20P
P504B PLUG 20P
P902A PLUG 8P
TP46B 0.8ph PIN
TP46R 0.8ph PIN
SYNC OUT
GND
Cr
Cb
Y
SCP
BLNK
ABL
RGB OUT
TEXT R
TEXT G
TEXT B
TEXT Ys
UP-CON
525P
SIGNAL
OSD R
OSD G
OSD B
OSD Ys
SDA
SCL
V BLK
+9V-1
HD
VD
RGB MAGARI
H Vcc
H DRIVE GND
H DRIVE
VP OUT
MAGARI
DEF GND
TO CRT D
VM
RJ10 SHORT
RJ11 SHORT
RJ12 SHORT
RJ13 SHORT
RJ14 SHORT
RJ15 SHORT
RJ16 SHORT
RJ17 SHORT
RJ18 SHORT
1
2
3
4
5
6
7
8
A
B
C
D
E
F

BEP
29AZ8UE
29AZ8UA


1
2
3
4
5
6
7
8
A
B
C
D
E
F
CT04 10V100
CT03 B25V0.01
CE
NC
VDD
VOUT
GND
CT02 B25V0.01
CT01 6.3V220
LT12 TEM2121M
QT07 OPEN
QT09 M5M51008BVP-12VLL/IS62LV1024LL-70T
CT23 25V0.1
QT01 SAA5667HL
RT44 10k
RT01 100
RT02 100
SCL1
SDA1
LT03 TEM2121M
CT05 25V0.1
CT06 10V47
XT01 12.0MHz
CT09 56p(CH)
CT08 56p(CH)
LT04 TEM2121M
VDDC
CT11 25V0.1
CT10 10V47
RT03 1k
RT04 1k
RT05 10
QT02 2SC4116-Y
RT13 1k
LT11 TEM2121M
LT07 TEM2121M
LT08 TEM2121M
LT09 TEM2121M
LT05 TEM2121M
RT33 47
QT08 2SC4116-Y
RT32 10k
RT31 10k
RT26 4.7k
RT42 47
RESET
QT11 PST9146NL
CT19 16V10
RT06 3.3k
GT02 OPEN
RT08 47k
RT07 47k
VD
RT14 1k
GT01 OPEN
QT10 2SC4116-Y
QT03 2SC3437Y-L
RT15 47k
RT16 47k
HD
YS
RT10 2.2k
R
RT09 3.3k
GT03 4.7k
QT12 2SA1586-Y
RT12 2.2k
G
RT11 3.3k
GT04 4.7k
QT13 2SA1586-Y
RT22 2.2k
B
RT21 3.3k
GT05 4.7k
QT14 2SA1586-Y
RT30 47k
RT35 1k
RT38 560
RT34 2.2k
RT18 22k
QT15 2SA1586-Y
CT07 10V1u
LT06 PL-150u
RT23 1.5k
CT18 10p
CT15 150p
GT07 CHIP 3P
RT17
RT37 100
QT05 2SC4116-Y
RT19 470
RT20 1k
CT16 22p
QT04 2SA1586-Y
CT20 B25V0.01
CT21 16V10
CT14 25V0.1
CT22 OPEN
RT28 100
RT36 OPEN
CT17 25V0.1
RT27 12k_F
RT24 12k_F
GT08 10k
GT09 10k
CT12 10V47
CT13 25V0.1
RT29 100
RT40
PT01 2.5mm B-B CONNECTOR 15P
LT02 TEM2121M
LT01 TEM2121M
R
B
RESET
G
YS
HD
VD
SCL1
SDA1
TEXT R
TEXT B
RESET
GND
TEXT G
TEXT Ys
ODD/EVEN
+9V
Video
GND
HD
VD
SCL1
SDA1
+5V
TO SIGNAL

UT01 TEXT BOARD PD0375

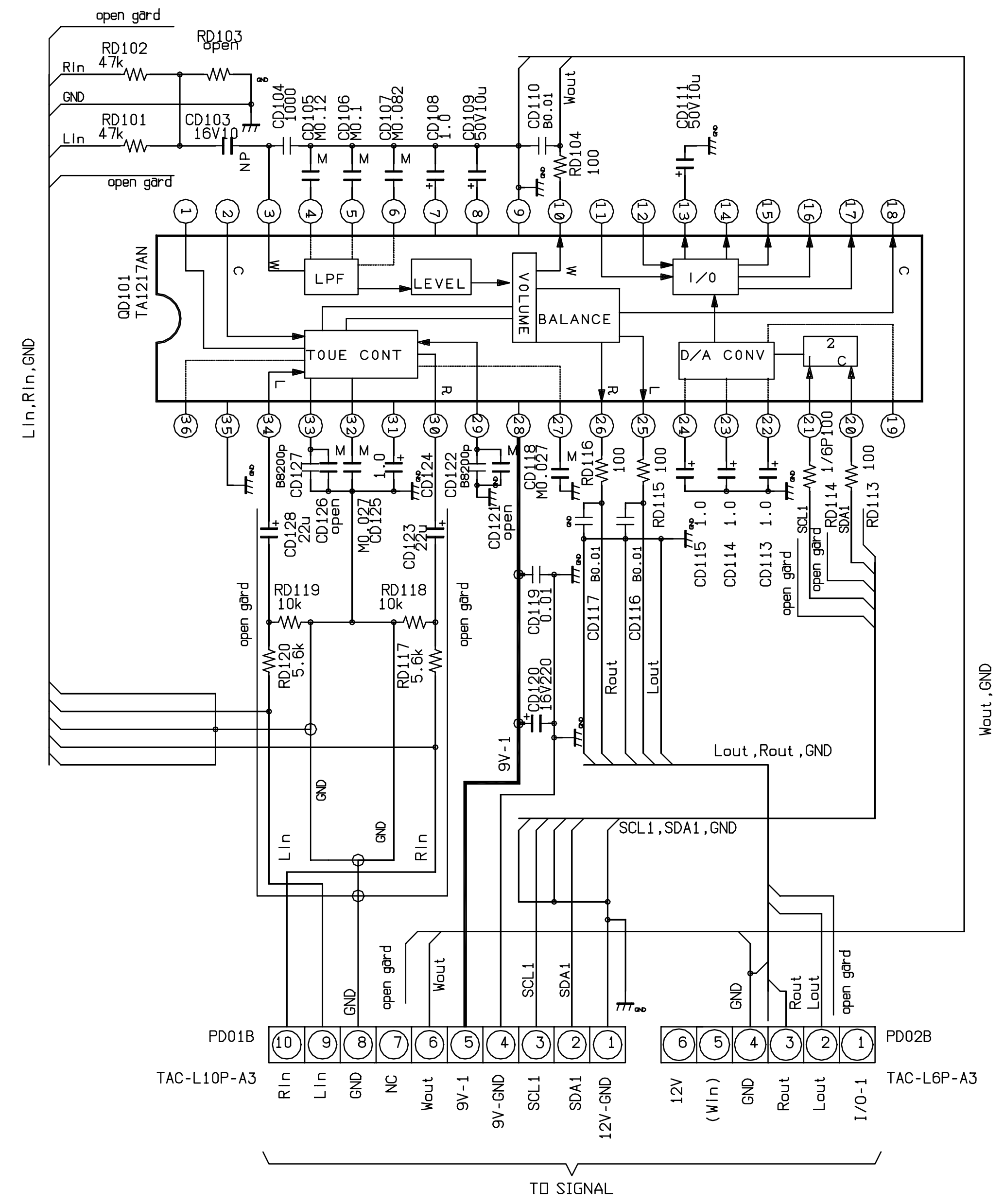
PARTS LIST SN 23786960

M-TEXT-P2

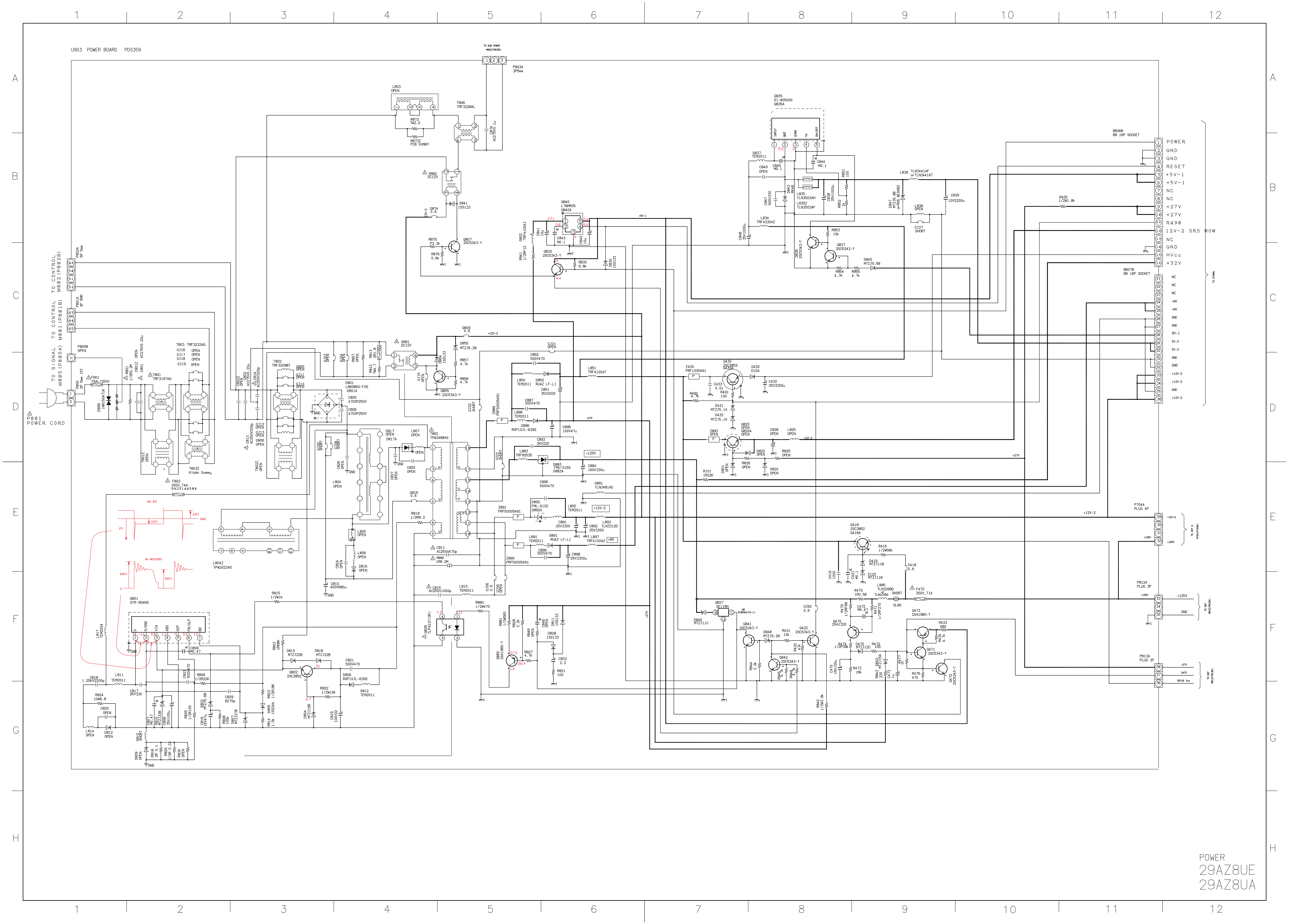
(TELETEXT PAINTER2)

29AZ8UE Series

U103 A PRO BOARD PD0365

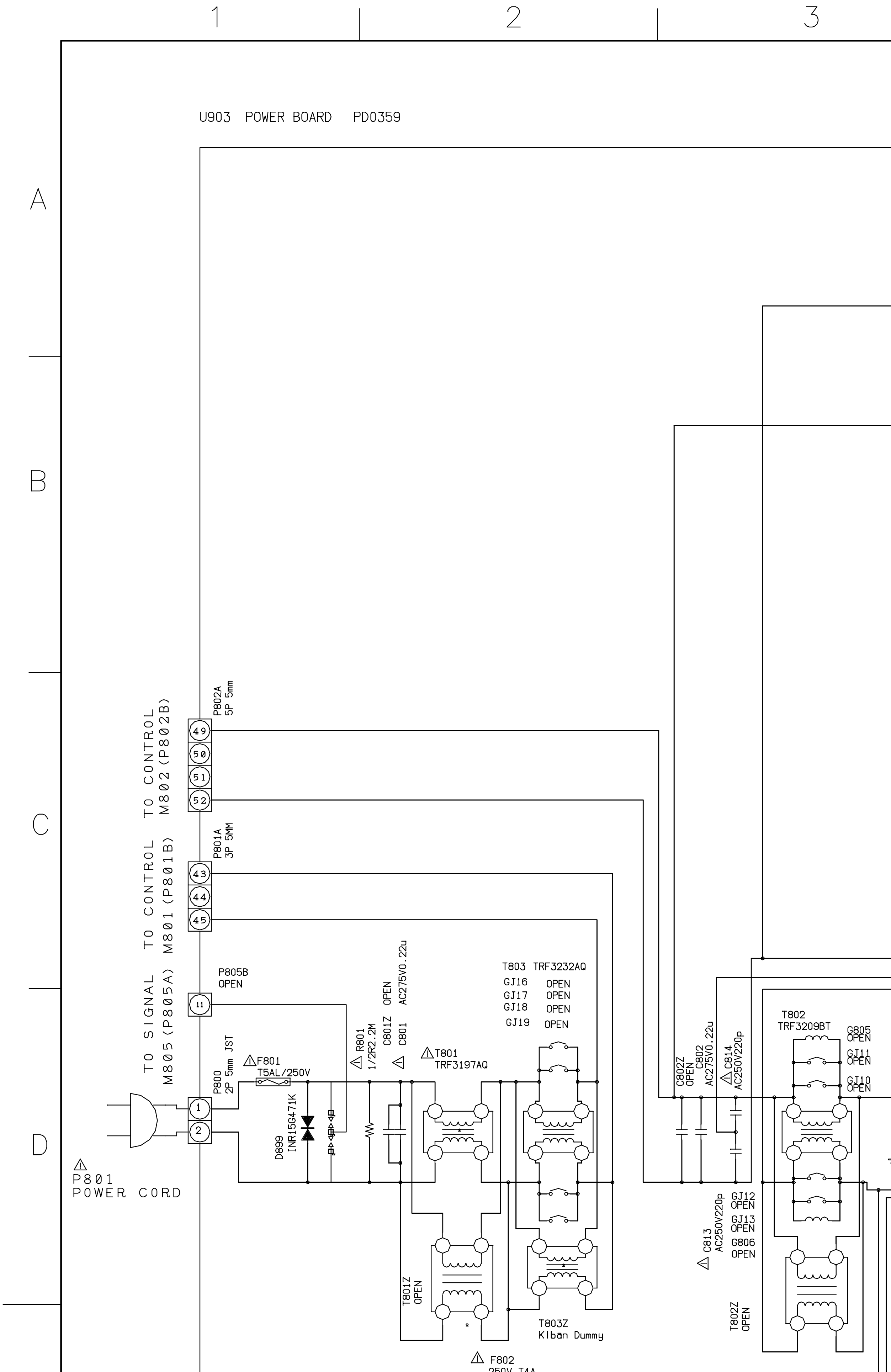

open gard
RD103 open
RD102 47k
RIn
GND
RD101 47k
LIn
CD103 16V10
NP
CD104 1000
CD105 M0.12
CD106 M0.1
CD107 M0.082
CD108 1.0
CD109 50V10u
CD110 B0.01
RD104 100
Wout
CD111 50V10u
QD101 TA1217AN
LPF
LEVEL
VOLUME
BALANCE
TOUE CONT
I/O
D/A CONV
LIn,RIn,GND
CD127 B8200p
CD128 22u
CD126 open
CD125 M0.027
CD124
CD123 22u
CD122 B8200p
CD121 open
CD118 M0.027
RD116 100
RD115 100
CD117 B0.01
CD116 B0.01
CD115 1.0
CD114 1.0
CD113 1.0
RD114 1/6P100
RD113 100
SCL1
SDA1
RD119 10k
RD118 10k
RD120 5.6k
RD117 5.6k
CD119 0.01
CD120 16V220
9V-1
Rout
Lout
Lout,Rout,GND
SCL1,SDA1,GND
Wout,GND
PD01B
TAC-L10P-A3
RIn
LIn
GND
NC
Wout
9V-1
9V-GND
SCL1
SDA1
12V-GND
PD02B
TAC-L6P-A3
12V
(Win)
GND
Rout
Lout
I/O-1
TO SIGNAL

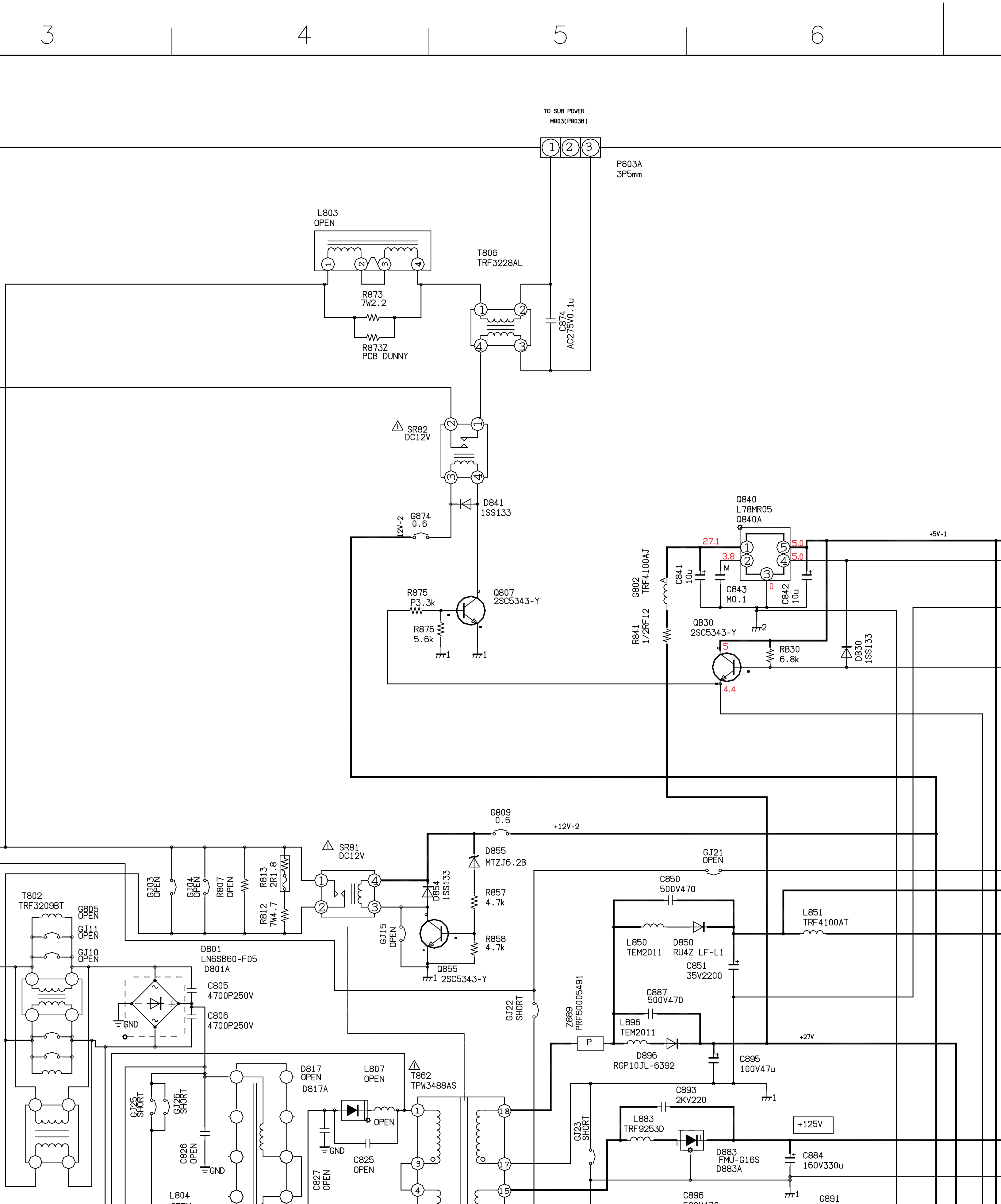
A-PRO
29AZ8UE
29AZ8UA

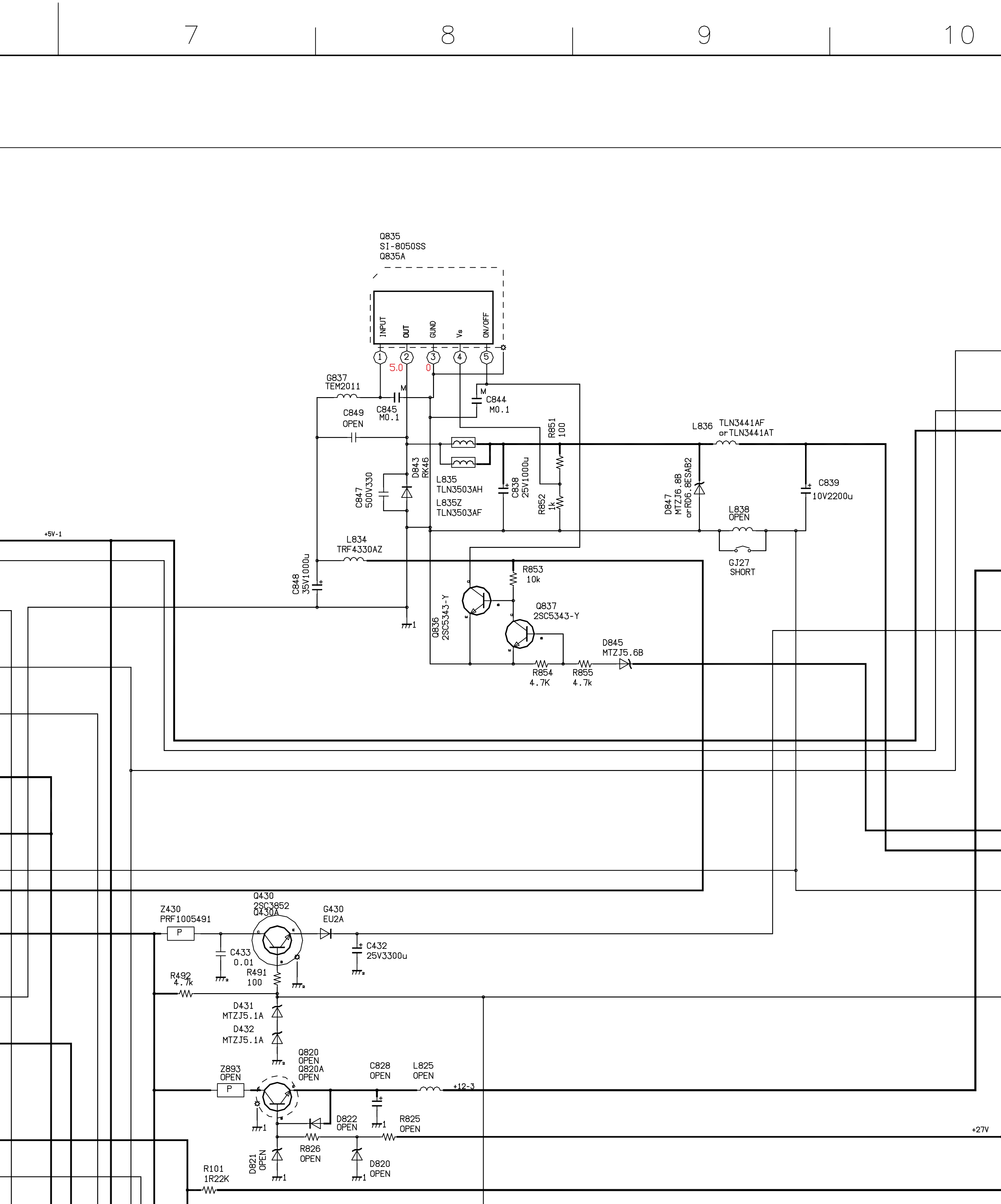


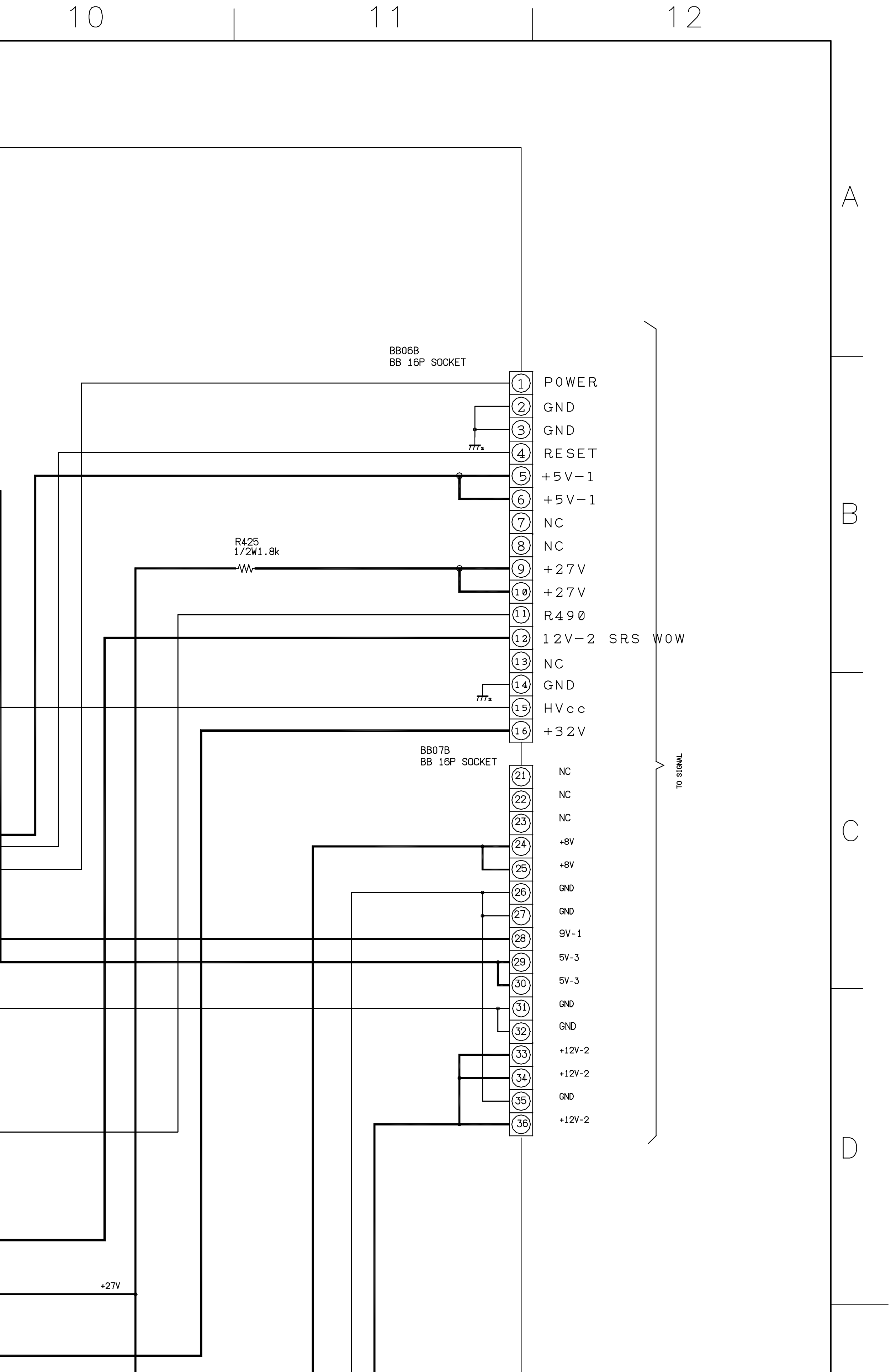
U903 POWER BOARD PD0359
TO SUB POWER M803(P803B)
P803A 3P5mm
L803 OPEN
T806 TRF3228AL
R873 7W2.2
R873Z PCB DUMMY
C874 AC275V0.1u
SR82 DC12V
D841 1SS133
Q874 0.6
R875 F3.3k
R876 5.6k
Q807 2SC5343-Y
Q835 SI-8050SS Q835A
INPUT OUT GND Vc ON/OFF
Q837 TEM2011
C849 OPEN
C845 M0.1
C844 M0.1
L835 TLN3503AH L835Z TLN3503AF
L834 TRF4330AZ
C848 35V1000u
C838 25V1000u
R851 100
L836 TLN3441AF or TLN3441AT
C839 10V2200u
D847 MTZJ6.8B or RD6.8ESB2
L838 OPEN
GJ27 SHORT
R853 10k
Q836 2SC5343-Y
Q837 2SC5343-Y
R854 4.7K
R855 4.7k
D845 MTZJ5.6B
Q840 L78MR05 Q840A
C841 10u
C843 M0.1
C842 10u
R830 6.8k
Q830 2SC5343-Y
R841 1/2WF12
L802 TRF4100AJ
D850 1SS133
+5V-1
BB06B BB 16P SOCKET
① POWER
② GND
③ GND
④ RESET
⑤ +5V-1
⑥ +5V-1
⑦ NC
⑧ NC
⑨ +27V
⑩ +27V
⑪ R490
⑫ 12V-2 SRS WOW
⑬ NC
⑭ GND
⑮ HVcc
⑯ +32V
BB07B BB 16P SOCKET
NC NC NC +8V +8V GND GND 9V-1 5V-3 5V-3 GND GND +12V-2 +12V-2 GND +12V-2
TO SIGNAL
R425 1/2W1.8k
TO CONTROL M802(P802B)
P802A 5P 5mm
TO CONTROL M801(P801B)
P801A 3P 5MM
TO SIGNAL M805(P805A)
P805B OPEN
P800 2P 5mm JST
F801 T5AL/250V
R801 1/2W2.2M
C801Z OPEN
C801 AC275V0.22u
D800 1N4004K
T801 TRF3197AQ
T803 TRF3232AQ
GJ16 OPEN GJ17 OPEN GJ18 OPEN GJ19 OPEN
T801Z OPEN
T803Z Kiban Dummy
F802 250V_T4A SN25144508
P801 POWER CORD
C802Z OPEN
C802 AC275V0.22u
C814 AC250V220p
C812 AC250V220p
C813 AC250V220p
GJ12 OPEN GJ13 OPEN
GJ05 OPEN
T802 TRF3208BT
T802Z OPEN
GJ09 OPEN GJ10 OPEN GJ11 OPEN
R807 OPEN
R812 7W4.7
R813 2R1.8
C803 3.3u
D801 LN6BB60-F05 D801A
C805 4700P250V
C806 4700P250V
SR81 DC12V
D809 0.6
D855 MTZJ6.2B
+12V-2
R857 4.7k
R858 4.7k
Q855 2SC5343-Y
GJ15 OPEN
GJ21 OPEN
C850 500V470
L850 TEM2011
D850 RU4Z LF-L1
C851 35V2200
L851 TRF4100AT
C887 500V470
L896 TEM2011
D896 RGP10JL-6392
C895 100V47u
Z889 PRF5005491
C893 2KV220
L883 TRF9253D
D883 FML-G16S D883A
C884 160V330u
+125V
GJ22 SHORT
GJ23 SHORT
D817 OPEN D817A
L807 OPEN
T862 TPW3488AS
C825 OPEN
GJ16 0.6
R819 1/2R8.2
L804 OPEN
C827 OPEN
L805 OPEN
L806 OPEN
D816 OPEN
C824 OPEN
C810 400V680u
L804Z TPW2023AS
C896 500V470
D891 TLN3481AD
D892 FML-G12S D892A
Z891 PRF5005491
C891 25V3300
L892 TEM2011
C892 25V3300
L893 TLN3312D
+12V-2
L891 TEM2011
D891 RU4Z LF-L1
C899 500V470
L897 TRF4100AZ
+8V
C898 25V3300u
Z890 PRF5005491
C811 AC250V470p
R899 1R8.2M
C815 AC250V1000p
L815 TEM2011
GJ06 0.6
GJ05 OPEN
R815 1/2W1k
Q801 STR-X6469
D S/GND VIN ABS OCP FB/OLP NC
C809 M0.47
L817 TEM2004
C818 1.25KV2200p
L811 TEM2011
C817 2KV330
R824 10W6.8
C820 OPEN
L814 OPEN
D812 OPEN
D807 MTZJ33B
C808 35V100u
R803 1/2R100
C816 16V47u
D803 MTZJ6.8B
R808 100k
D837 MTZJ27B
R806 1/2R22K
C829 8270p
R823 1/2R18K
D805 1SS244
R814 1.5k
D810 MTZJ22B
D818 MTZJ22B
Q802 2SC3852
R822 1/2W10k
D804 MTZJ15B
C819 100V22
C821 500V470
D806 RGP10JL-6392
L812 TEM2011
R803 220K
GJ10 SHORT
R818 0.47
R829 1/2R0.33
R830 OPEN
D809 OPEN
R880 1/2W470
Q826 TLP421F(GR)
R881 1/2W560
R828 2.2k
Q880 2SA1980-Y
R827 4.7k
D845 OPEN
D846 OPEN
R811 1SS133
D828 1SS133
C833 2.2
R821 100
Z430 PRF1005491
Q430 2SC3852 Q430A
G430 EU2A
C432 25V3300u
C433 0.01
R491 100
R492 4.7k
D431 MTZJ5.1A
D432 MTZJ5.1A
Z893 OPEN
Q820 OPEN Q820A OPEN
C828 OPEN
L825 OPEN
+12-3
D822 OPEN
R825 OPEN
R826 OPEN
D821 OPEN
D820 OPEN
R101 1R22K
+27V
+12V-2
P704A PLUG 4P
TO SRS WOOFER
Q418 2SC3852 Q418A
R416 1/2W56k
D419 MTZJ11B
D420 MTZJ11B
C419 1000
C421 M0.1
Q418 0.6
F470 250V_T1A
L885 TLN32990
SHORT
SL80
R470 1R0.56
R479 1/2F56
C472 M0.4
R471 1/2F270
Q827 SE116N
D849 MTZJ11C
GJ50 0.6
Q470 2SA1320
Q473 2SA1980-Y
R433 680
R434 4.7k
Q841 2SC5343-Y
D848 MTZJ6.2B
R431 10k
Q432 2SC5343-Y
Q842 2SC5343-Y
R844 3.3k
R845 47k
R846 47k
R432 47k
R474 1/2F39k
D470 MTZJ12C
R472 100
Q471 2SC5343-Y
R473 18k
C470 16V100u
D472 MTZJ15A
R843 33k
C473 0.1u
R477 1k
R476 470
Q472 2SC5343-Y
R842 1/2W3.9k
P812A PLUG 3P
+125V
GND
TO DEF MEIKI PBIBL
P813A PLUG 3P
+27V GATE DRIVE Vcc
TO DEF MEIKI PBIBL
W2-W3
600V 0.8V GND
W1-W2(GND)
600V 500V

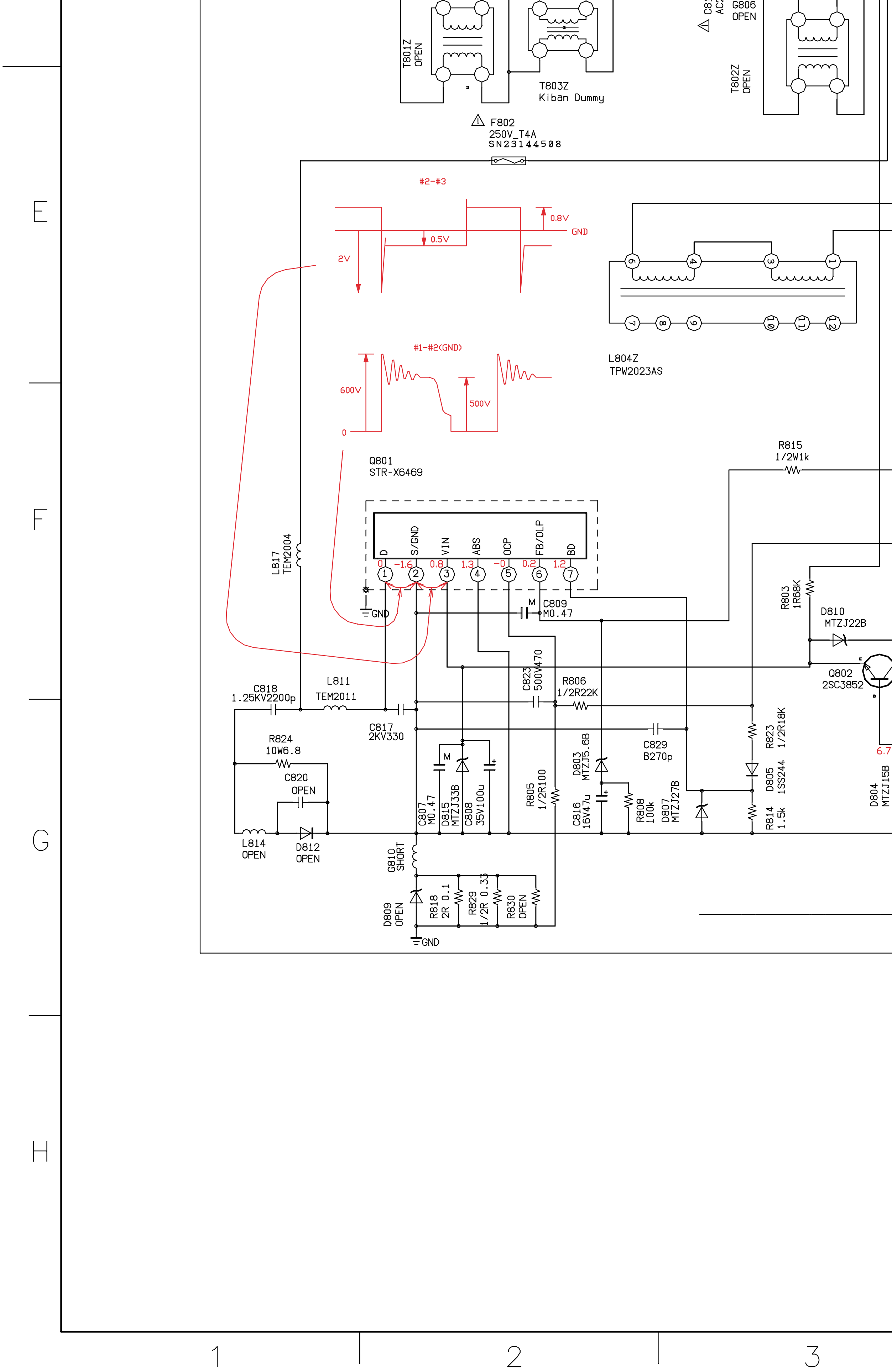
POWER
29AZ8UE
29AZ8UA

1
2
3
A
B
C
D
U903 POWER BOARD PD0359
TO CONTROL M802(P802B)
P802A 5P 5mm
49
50
51
52
TO CONTROL M801(P801B)
P801A 3P 5MM
43
44
45
TO SIGNAL M805(P805A)
P805B OPEN
11
P800 2P 5mm JST
1
2
P801 POWER CORD
F801 T5AL/250V
D899 INR15G471K
R801 1/2R2.2M
C801Z OPEN
C801 AC275V0.22u
T801 TRF3197AQ
T801Z OPEN
T803 TRF3232AQ
GJ16 OPEN
GJ17 OPEN
GJ18 OPEN
GJ19 OPEN
T803Z Kiban Dummy
F802 250V T4A
C802Z OPEN
C802 AC275V0.22u
C814 AC250V220p
C813 AC250V220p
T802 TRF3209BT
G805 OPEN
GJ11 OPEN
GJ10 OPEN
GJ12 OPEN
GJ13 OPEN
G806 OPEN
T802Z OPEN

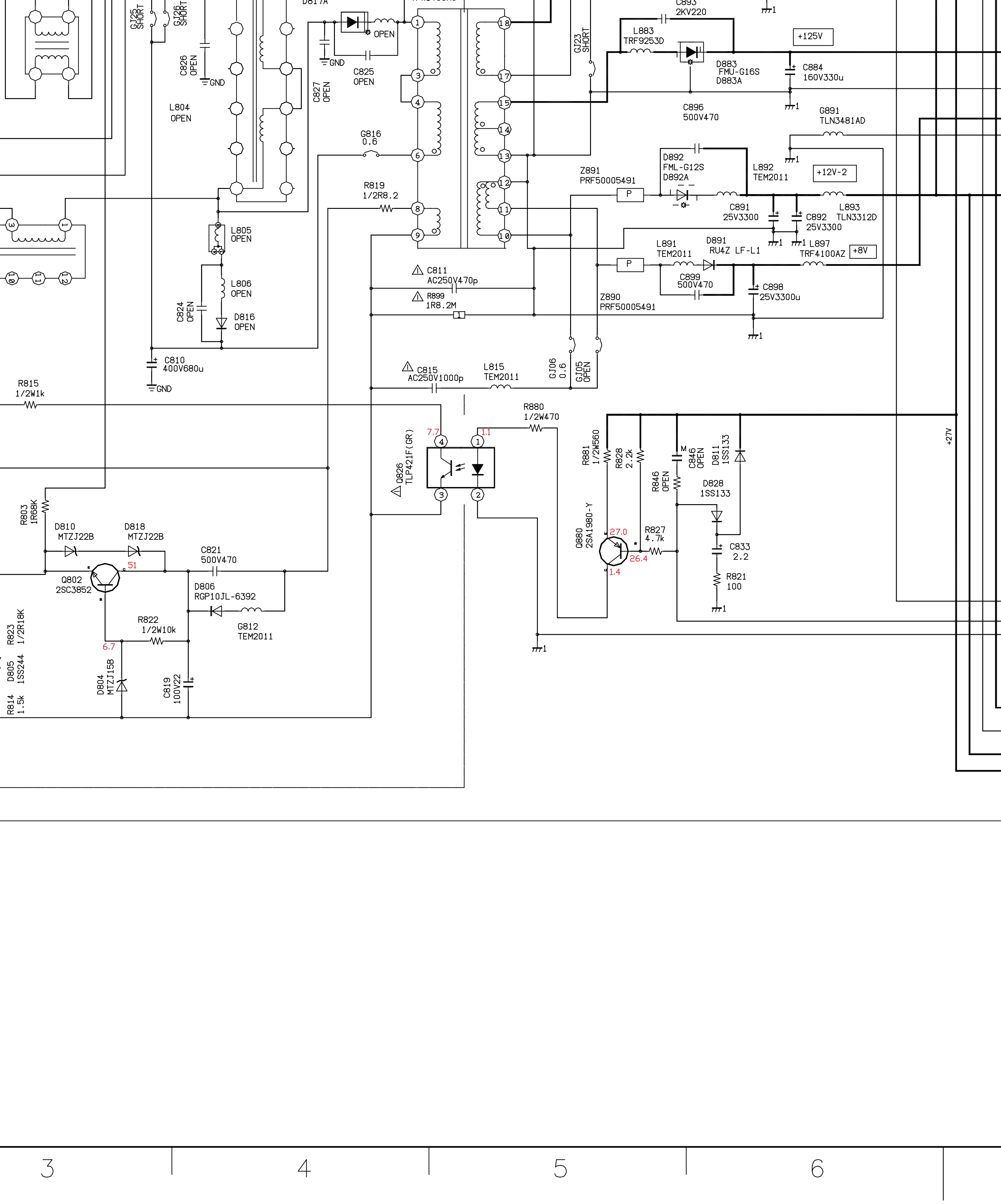

3
4
5
6
TO SUB POWER
M803(P803B)
P803A
3P5mm
L803
OPEN
T806
TRF3228AL
R873
7W2.2
R873Z
PCB DUNNY
C874
AC275V0.1u
SR82
DC12V
D841
1SS133
G874
0.6
12V-2
R875
P3.3k
R876
5.6k
Q807
2SC5343-Y
Q840
L78MR05
Q840A
27.1
3.8
5.0
5.0
0
M
G802
TRF4100AJ
C841
10u
C843
M0.1
C842
10u
+5V-1
R841
1/2RF12
QB30
2SC5343-Y
5
4.4
RB30
6.8k
DB30
1SS133
G809
0.6
+12V-2
SR81
DC12V
D855
MTZJ6.2B
GJ21
OPEN
GJ03
OPEN
GJ04
OPEN
R807
OPEN
R813
2R1.8
R812
7W4.7
D854
1SS133
R857
4.7k
C850
500V470
L851
TRF4100AT
T802
TRF3209BT
G805
OPEN
GJ11
OPEN
GJ10
OPEN
GJ15
OPEN
R858
4.7k
L850
TEM2011
D850
RU4Z LF-L1
C851
35V2200
D801
LN6SB60-F05
D801A
Q855
2SC5343-Y
C805
4700P250V
C806
4700P250V
GND
GJ22
SHORT
Z889
PRF50005491
C887
500V470
L896
TEM2011
P
+27V
D896
RGP10JL-6392
C895
100V47u
D817
OPEN
D817A
L807
OPEN
T862
TPW3488AS
GJ25
SHORT
GJ26
SHORT
C826
OPEN
GND
OPEN
GND
C825
OPEN
C827
OPEN
L804
C893
2KV220
GJ23
SHORT
L883
TRF9253D
+125V
D883
FMU-G16S
D883A
C884
160V330u
C896
G891

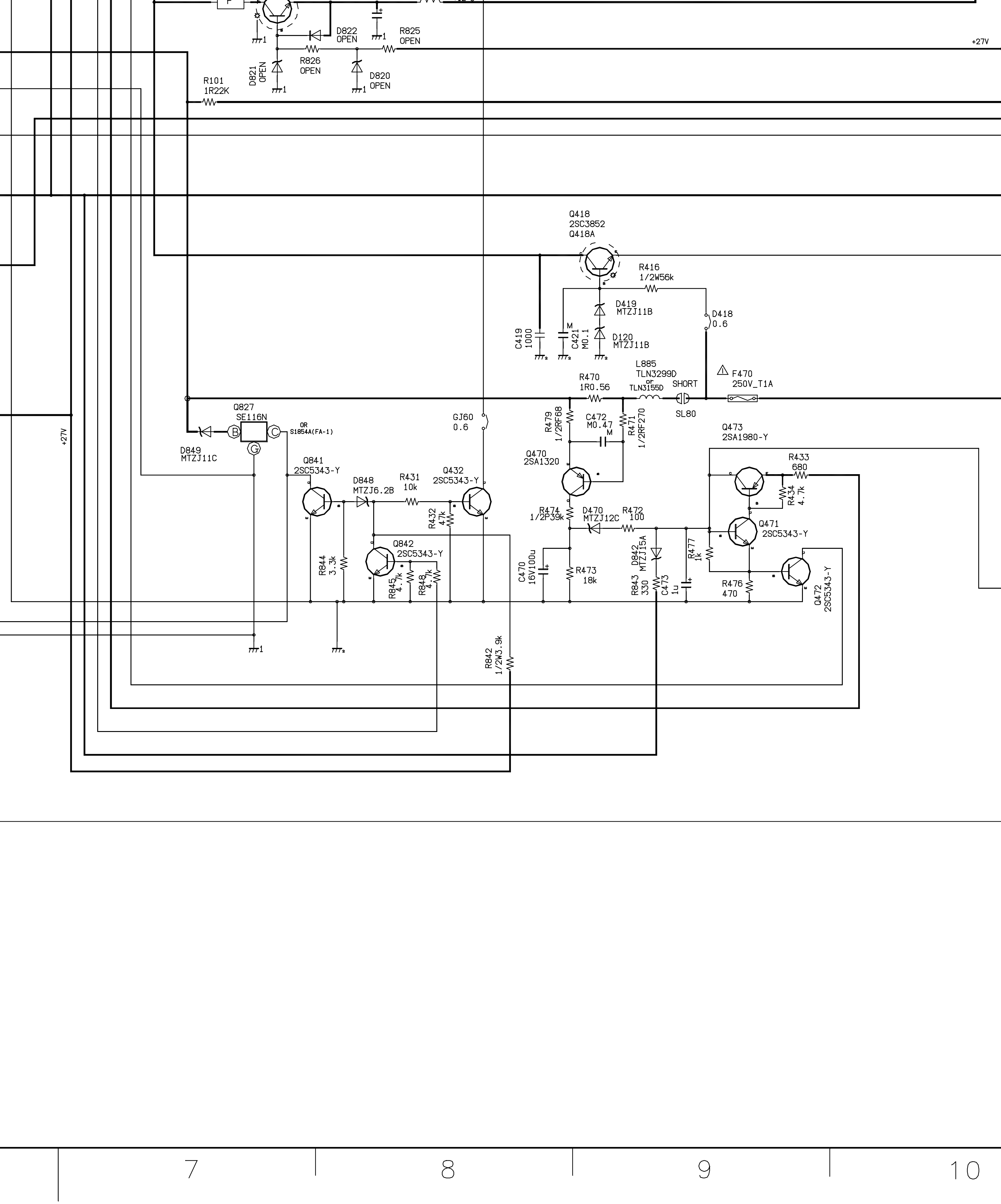

7
8
9
10
Q835
SI-8050SS
Q835A
INPUT
OUT
GUND
Vs
ON/OFF
1
2
3
4
5
5.0
0
G837
TEM2011
M
C845
M0.1
C844
M0.1
M
C849
OPEN
R851
100
L836
TLN3441AF
or TLN3441AT
D843
RK46
C847
500V330
L835
TLN3503AH
L835Z
TLN3503AF
C838
25V1000u
R852
1k
D847
MTZJ6.8B
or RD6.8ESAB2
C839
10V2200u
L838
OPEN
GJ27
SHORT
+5V-1
L834
TRF4330AZ
C848
35V1000u
R853
10k
Q836
2SC5343-Y
Q837
2SC5343-Y
1
D845
MTZJ5.6B
R854
4.7K
R855
4.7k
Z430
PRF1005491
P
Q430
2SC3852
Q430A
G430
EU2A
C433
0.01
C432
25V3300u
R492
4.7k
R491
100
2
D431
MTZJ5.1A
D432
MTZJ5.1A
Z893
OPEN
Q820
OPEN
Q820A
OPEN
C828
OPEN
L825
OPEN
+12-3
D822
OPEN
R825
OPEN
+27V
R826
OPEN
D821
OPEN
D820
OPEN
R101
1R22K


10
11
12
A
B
C
D
BB06B
BB 16P SOCKET
1 POWER
2 GND
3 GND
4 RESET
5 +5V-1
6 +5V-1
7 NC
8 NC
9 +27V
10 +27V
11 R490
12 12V-2 SRS WOW
13 NC
14 GND
15 HVcc
16 +32V
R425
1/2W1.8k
BB07B
BB 16P SOCKET
21 NC
22 NC
23 NC
24 +8V
25 +8V
26 GND
27 GND
28 9V-1
29 5V-3
30 5V-3
31 GND
32 GND
33 +12V-2
34 +12V-2
35 GND
36 +12V-2
TO SIGNAL
+27V

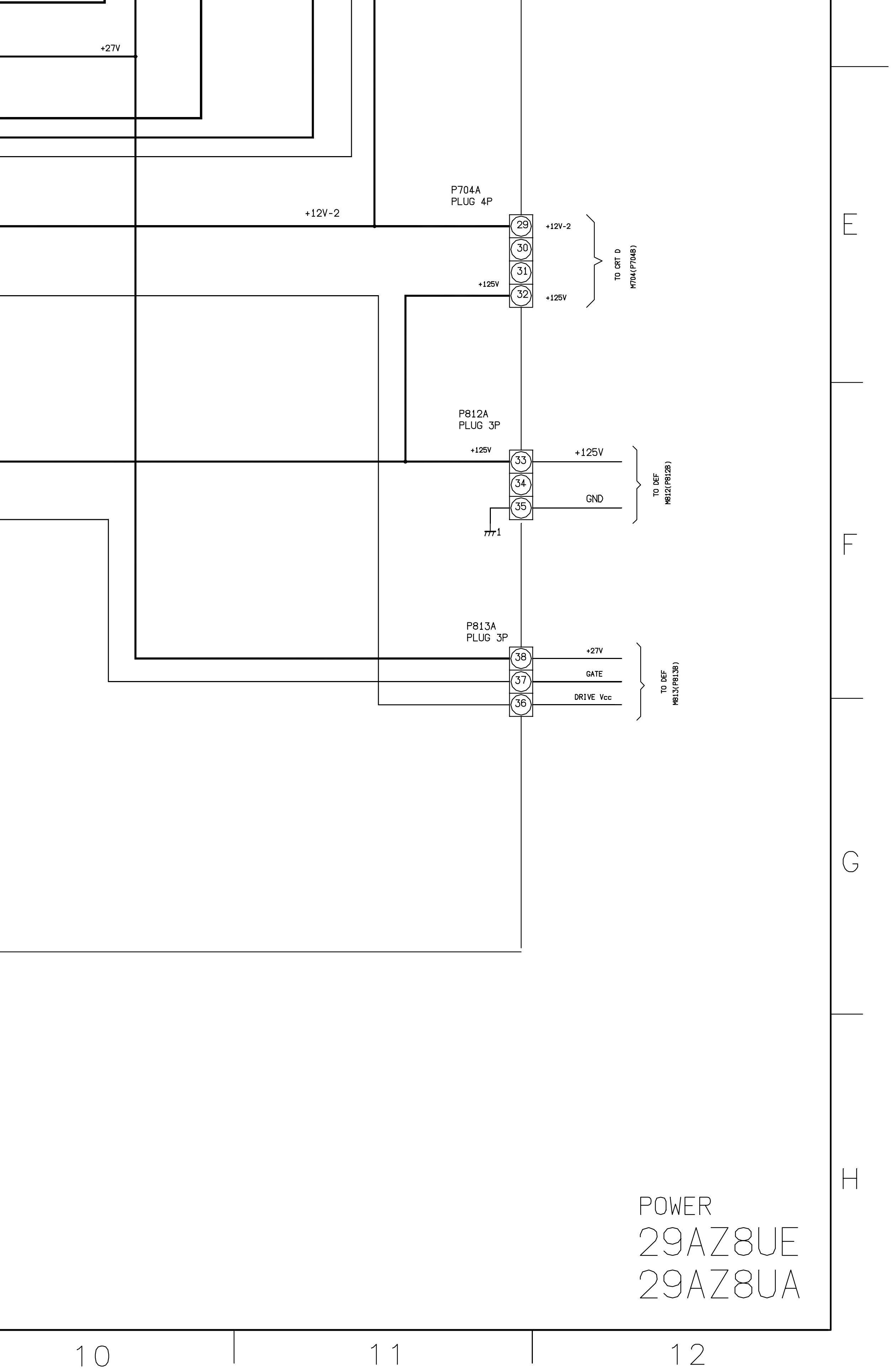


T801Z
OPEN
T803Z
Kiban Dummy
T802Z
OPEN
G806
OPEN
F802
250V_T4A
SN23144508
#2-#3
0.8V
GND
0.5V
2V
L804Z
TPW2023AS
#1-#2(GND)
600V
500V
0
Q801
STR-X6469
R815
1/2W1k
L817
TEM2004
D
S/GND
VIN
ABS
OCP
FB/OLP
BD
0
-1.6
0.8
1.3
-0
0.2
1.2
GND
C809
M0.47
R803
1R68K
D810
MTZJ22B
Q802
2SC3852
C823
500V470
R806
1/2R22K
C818
1.25KV2200p
L811
TEM2011
C817
2KV330
R824
10W6.8
C820
OPEN
C829
B270p
R823
1/2R18K
D803
MTZJ5.6B
R805
1/2R100
C807
M0.47
D815
MTZJ33B
C808
35V100u
C816
16V47u
R808
100k
D807
MTZJ27B
D805
1SS244
R814
1.5k
D804
MTZJ15B
6.7
L814
OPEN
D812
OPEN
G810
SHORT
D809
OPEN
R818
2R 0.1
R829
1/2R 0.33
R830
OPEN
GND
E
F
G
H
1
2
3

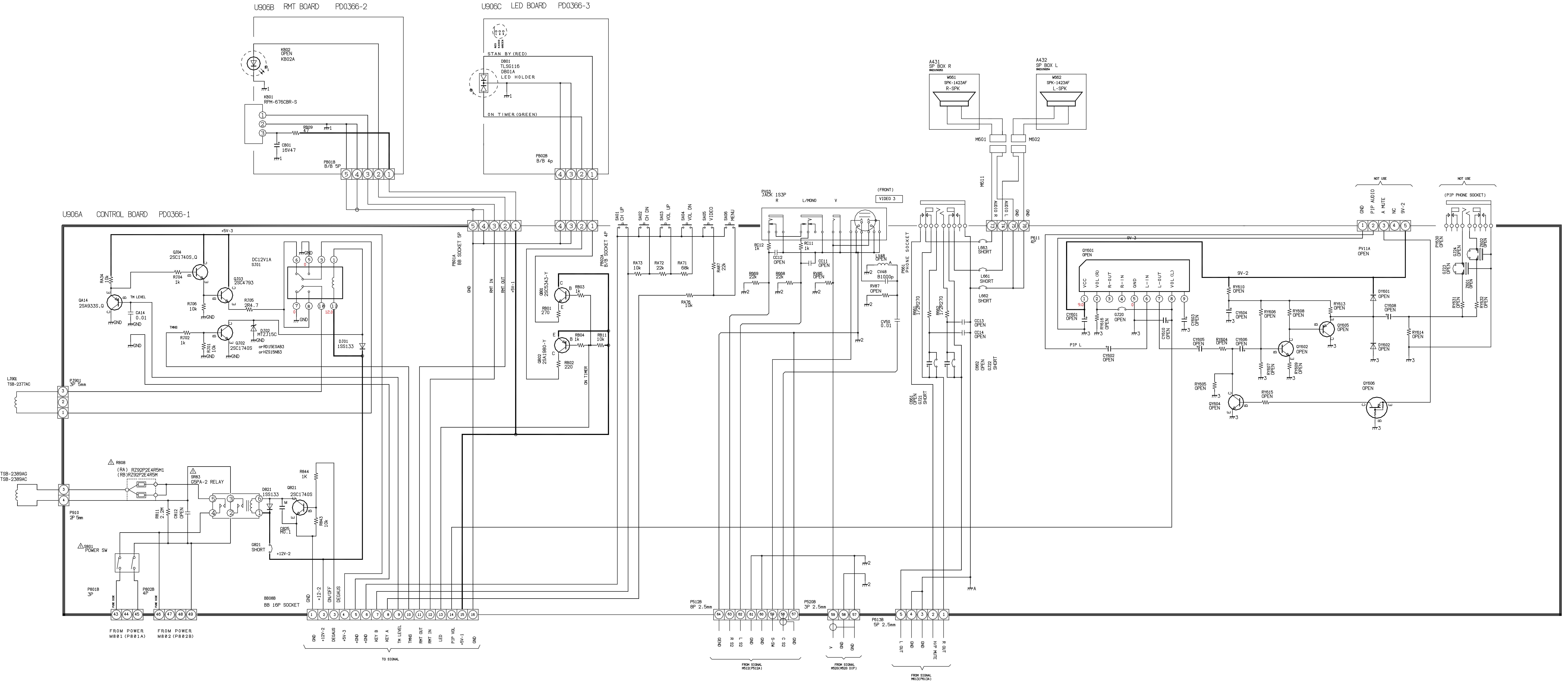

GJ25 SHORT
GJ26 SHORT
D817A
OPEN
GND
C825 OPEN
C826 OPEN
GND
C827 OPEN
L804 OPEN
G816 0.6
R819 1/2R8.2
L805 OPEN
L806 OPEN
C824 OPEN
D816 OPEN
C810 400V680u
GND
C893 2KV220
L883 TRF9253D
GJ23 SHORT
+125V
D883 FMU-G16S D883A
C884 160V330u
C896 500V470
G891 TLN3481AD
D892 FML-G12S D892A
L892 TEM2011
+12V-2
Z891 PRF50005491
P
C891 25V3300
C892 25V3300
L893 TLN3312D
L891 TEM2011
D891 RU4Z LF-L1
L897 TRF4100AZ
+8V
C899 500V470
C898 25V3300u
Z890 PRF50005491
P
C811 AC250V470p
R899 1R8.2M
1
C815 AC250V1000p
L815 TEM2011
GJ06 0.6
GJ05 OPEN
R815 1/2W1k
R880 1/2W470
7.7
1.1
Q826 TLP421F(GR)
R881 1/2W560
R828 2.2k
C846 OPEN
D811 1SS133
R846 OPEN
D828 1SS133
+27V
R803 1R68K
D810 MTZJ22B
D818 MTZJ22B
51
C821 500V470
Q802 2SC3852
Q880 2SA1980-Y
27.0
R827 4.7k
26.4
1.4
C833 2.2
R821 100
D806 RGP10JL-6392
G812 TEM2011
R822 1/2W10k
6.7
R823 1/2R18K
D805 1SS244
D804 MTZJ15B
C819 100V22
R814 1.5k
3
4
5
6



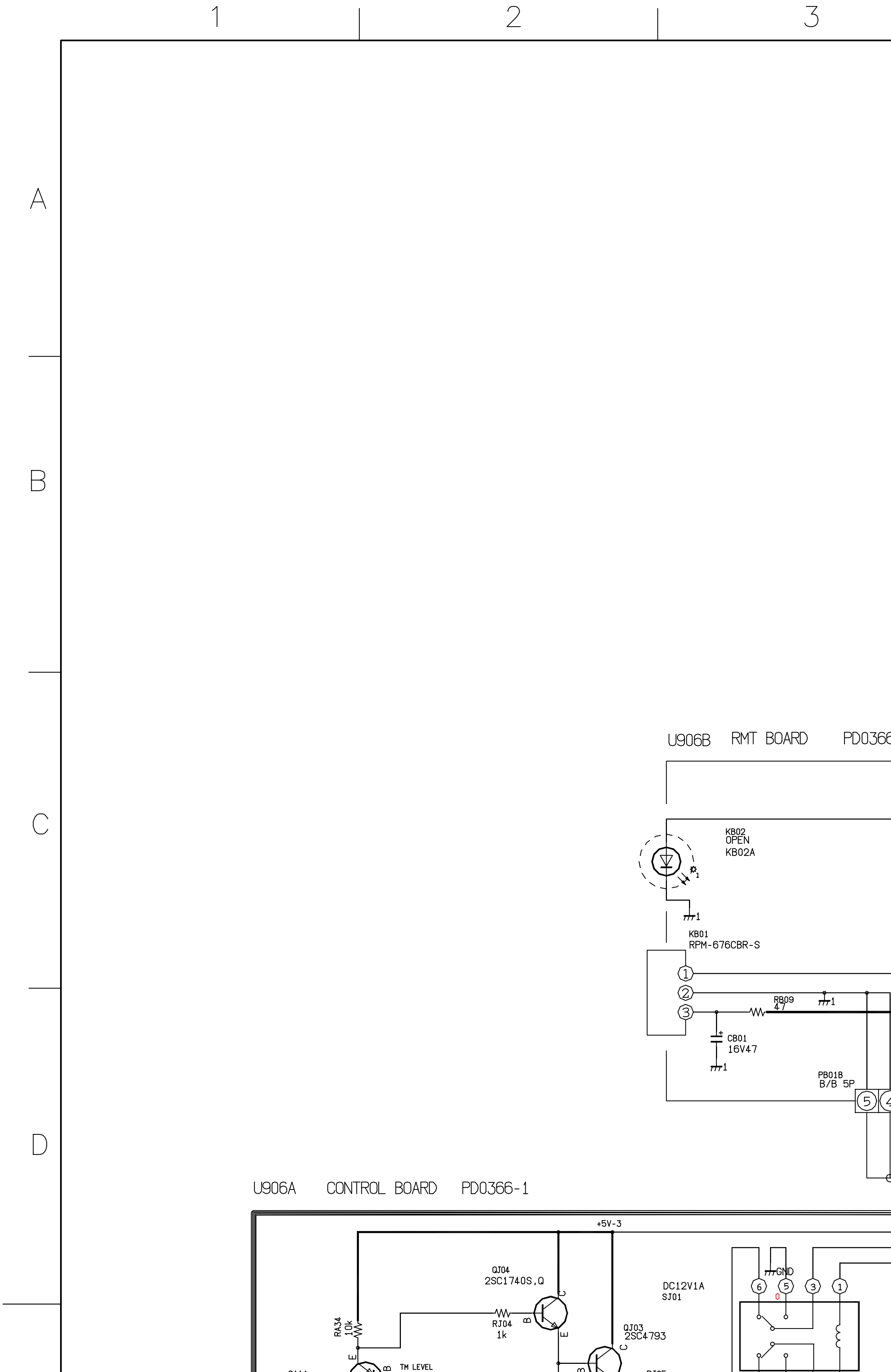
D822
OPEN
R825
OPEN
+27V
R826
OPEN
D821
OPEN
D820
OPEN
R101
1R22K
Q418
2SC3852
Q418A
R416
1/2W56k
D419
MTZJ11B
D418
0.6
C419
1000
C421
M0.1
M
D120
MTZJ11B
L885
TLN3299D
or
TLN3155D
SHORT
F470
250V_T1A
R470
1R0.56
SL80
Q827
SE116N
OR
S1854A(FA-1)
B
C
G
D849
MTZJ11C
+27V
GJ60
0.6
R479
1/2RF68
C472
M0.47
M
R471
1/2RF270
Q473
2SA1980-Y
R433
680
Q470
2SA1320
Q841
2SC5343-Y
D848
MTZJ6.2B
R431
10k
Q432
2SC5343-Y
R432
47k
R434
4.7k
R474
1/2P39k
D470
MTZJ12C
R472
100
Q471
2SC5343-Y
Q842
2SC5343-Y
R844
3.3k
R845
4.7k
R848
4.7k
C470
16V100u
R473
18k
D842
MTZJ15A
R477
1k
R843
330
C473
1u
R476
470
Q472
2SC5343-Y
R842
1/2W3.9k
7
8
9
10

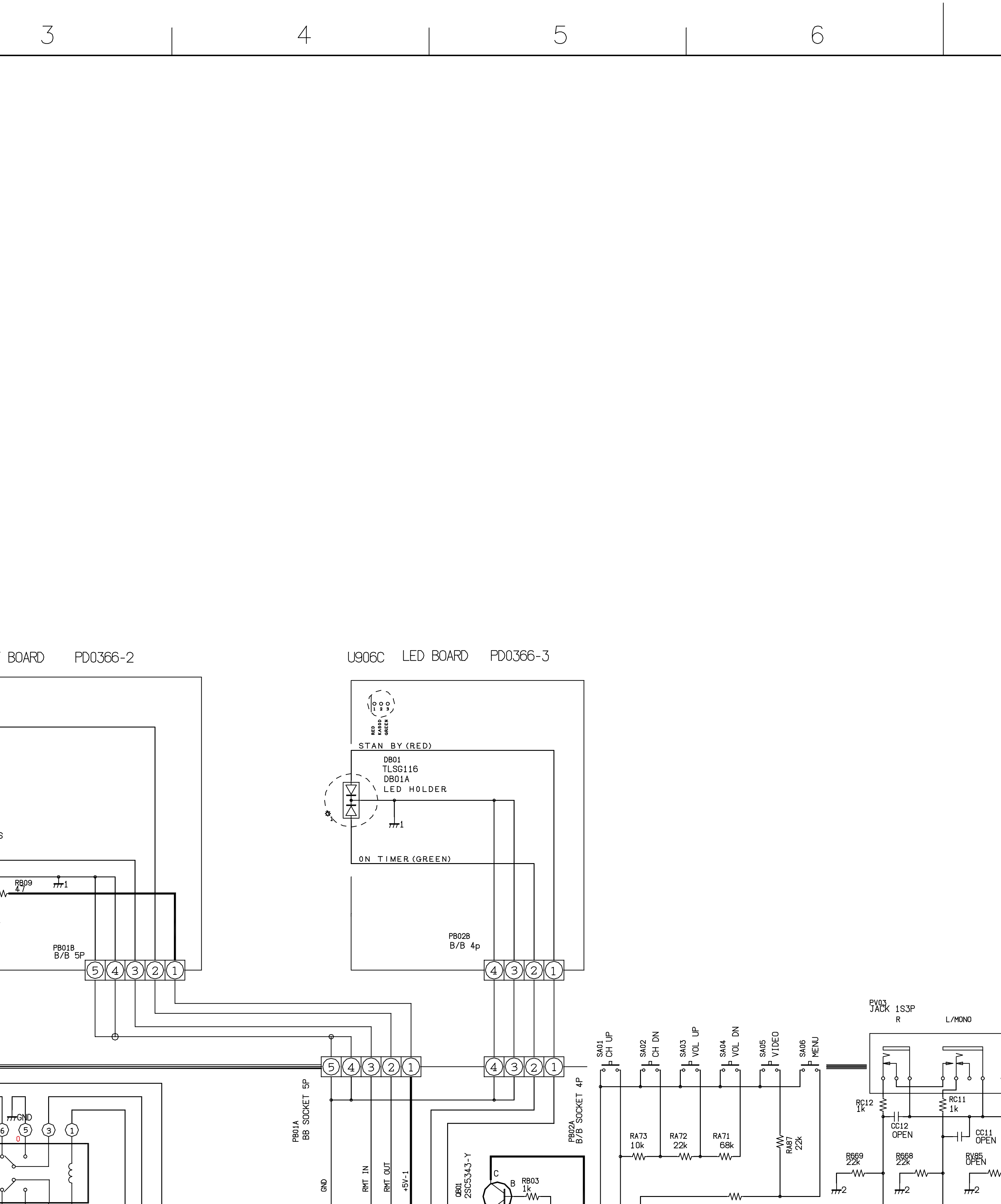

+27V
+12V-2
P704A
PLUG 4P
29
30
31
32
+12V-2
+125V
+125V
TO CRT D
M704(P704B)
P812A
PLUG 3P
+125V
33
34
35
+125V
GND
1
TO DEF
M812(P812B)
P813A
PLUG 3P
38
37
36
+27V
GATE
DRIVE Vcc
TO DEF
M813(P813B)
E
F
G
H
10
11
12

POWER
29AZ8UE
29AZ8UA

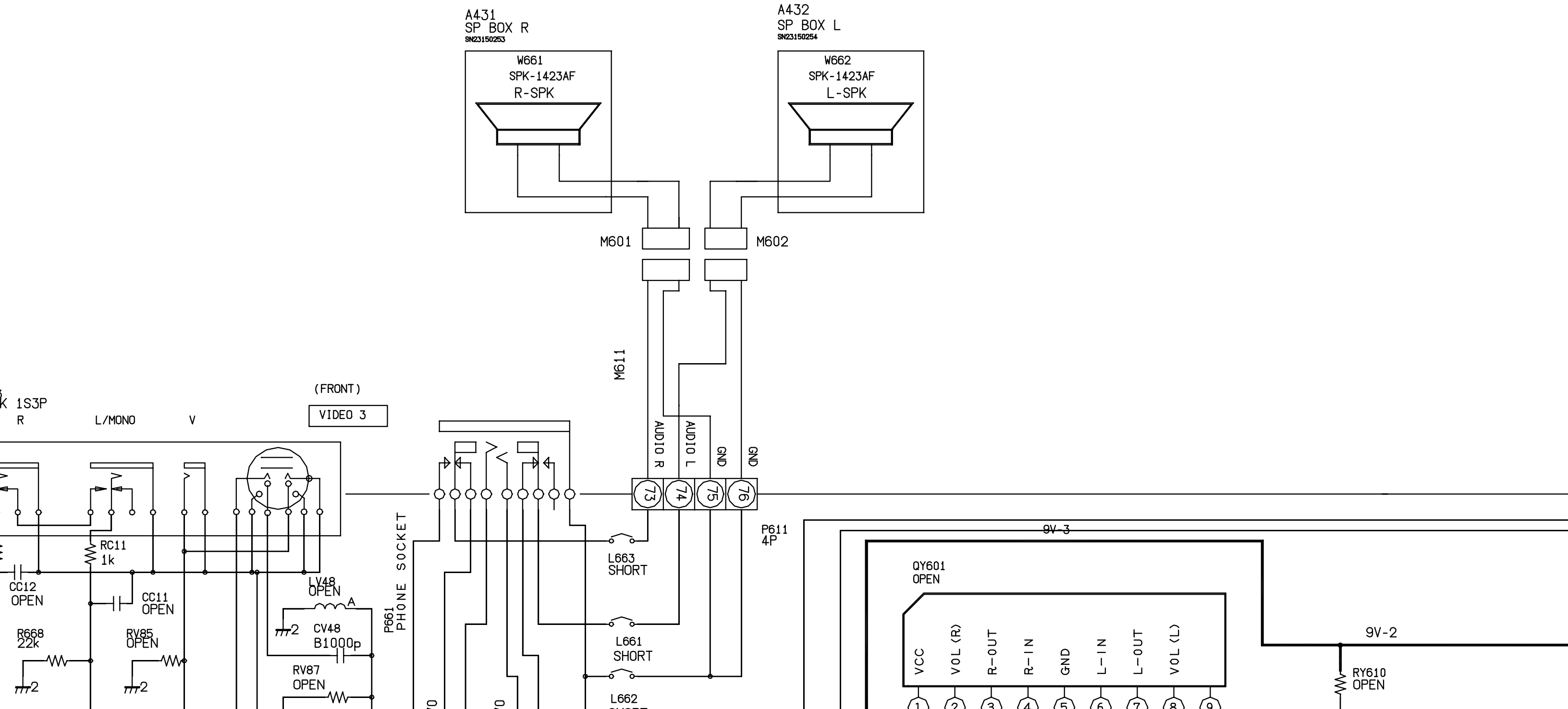

U906B RMT BOARD PD0366-2
U906C LED BOARD PD0366-3
U906A CONTROL BOARD PD0366-1
K802 OPEN K802A
K801 RPM-676CBR-S
P801B B/B 5P
D801 TLSG116 D801A LED HOLDER
STAN BY (RED)
ON TIMER (GREEN)
P802B B/B 4p
P801A BB SOCKET 5P
P802A B/B SOCKET 4P
Q804 2SC1740S,Q
Q803 2SC4793
QA14 2SA933S,Q
Q822 2SC1740S
DC12V1A S701
D830 MTZJ15C
D701 1SS133
Q801 2SC5343-Y
Q802 2SA1980-Y
S401 CH UP
S402 CH DN
S403 VOL UP
S404 VOL DN
S405 VIDEO
S406 MENU
JACK 1S3P
(FRONT)
VIDEO 3
R
L/MONO
V
PHONE SOCKET
A431 SP BOX R
W661 SPK-1423AF R-SPK
A432 SP BOX L
W662 SPK-1423AF L-SPK
M601
M602
P611 4P
QY601 OPEN
PY11A OPEN
NOT USE
(PIP PHONE SOCKET)
GND
PIP AUDIO
A MUTE
NC
9V-2
9V-3
PIP L
L901 TSB-2377AC
PJ901 3P 5mm
L961 RA TSB-2389AG RB TSB-2389AC
P910 3P 5mm
R808 (RA) RZ92P2E4R5M1 (RB)RZ92P2E4R5M
SR83 G5PA-2 RELAY
D821 1SS133
Q821 2SC1740S
S801 POWER SW
P801B 3P
P802B 4P
FROM POWER M801(P801A)
FROM POWER M802(P802B)
B808 BB 16P SOCKET
GND
+12V-2
DEGAUS
+5V-3
+GND
KEY B
KEY A
TM LEVEL
TMHS
RMT OUT
RMT IN
LED
PIP VOL
+5V-1
TO SIGNAL
P512B 8P 2.5mm
FROM SIGNAL M512(P512A)
P520B 3P 2.5mm
FROM SIGNAL M520(M520 DIP)
P613B 5P 2.5mm
FROM SIGNAL M613(P613A)
L OUT
GND
H/P MUTE
R OUT

CONTROL/RMT/LED
29AZ8UE
29AZ8UA

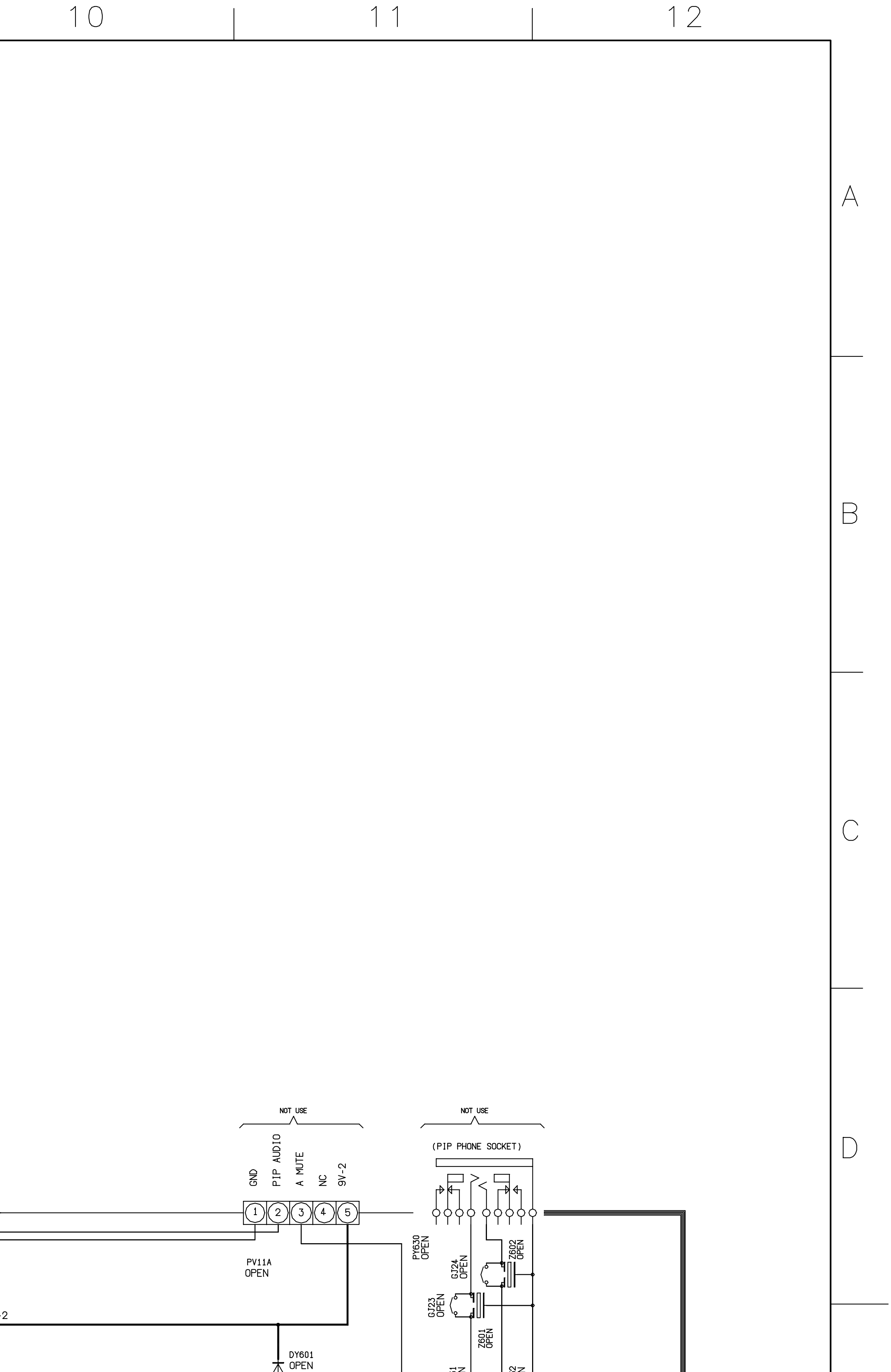

1
2
3
A
B
C
D
U906B RMT BOARD PD0366
KB02
OPEN
KB02A
1
1
KB01
RPM-676CBR-S
1
2
3
RB09
47
1
CB01
16V47
1
PB01B
B/B 5P
5
U906A CONTROL BOARD PD0366-1
+5V-3
QJ04
2SC1740S,Q
C
B
E
RA34
10k
RJ04
1k
E
B
TM LEVEL
QJ03
2SC4793
C
B
DC12V1A
SJ01
GND
6
5
3
1
0

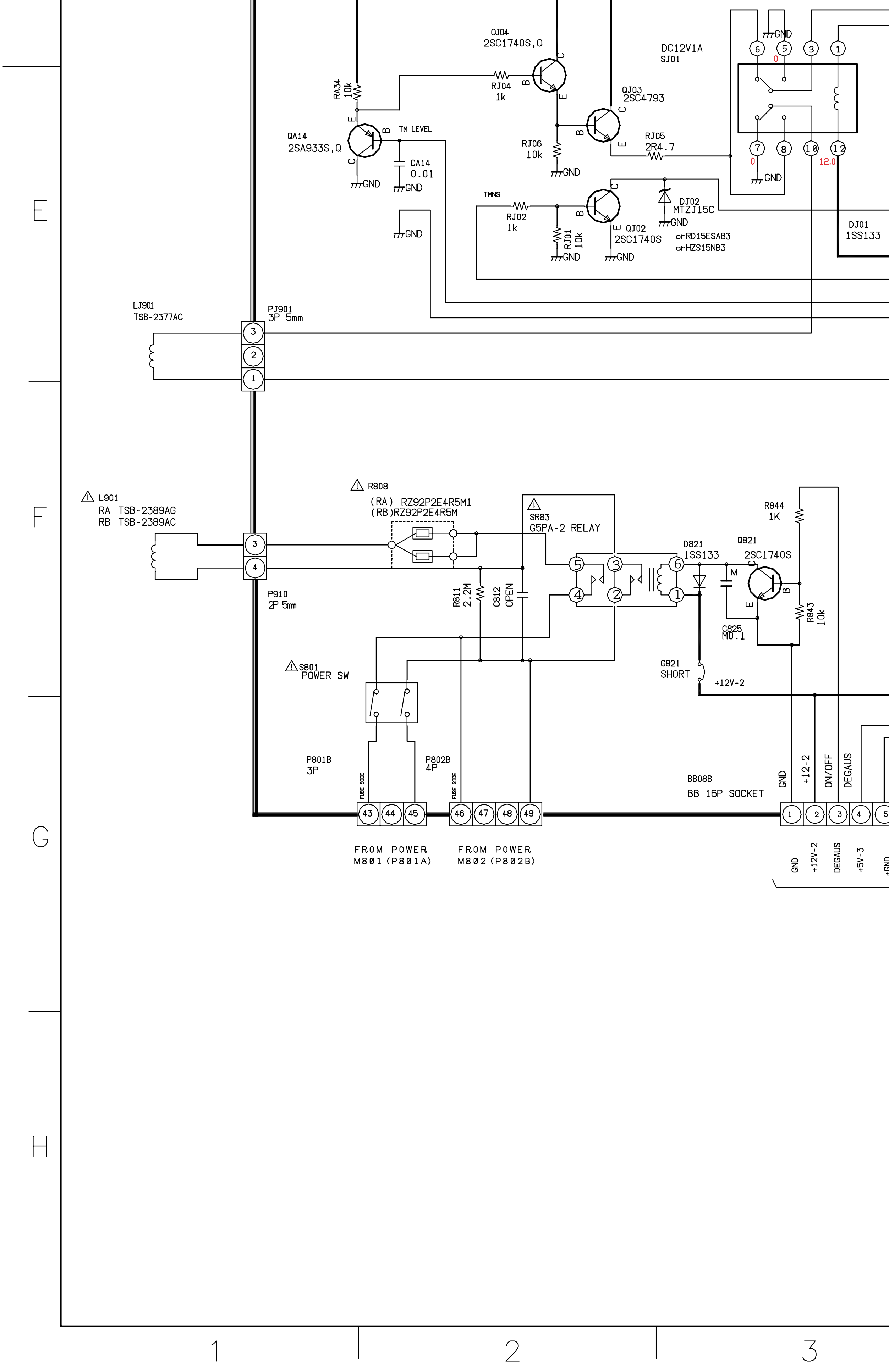

3
4
5
6
BOARD PD0366-2
U906C LED BOARD PD0366-3
RED KA500 GREEN
1 2 3
STAN BY (RED)
DB01
TLSG116
DB01A
LED HOLDER
1
ON TIMER (GREEN)
RB09
47
1
PB01B
B/B 5P
5 4 3 2 1
PB02B
B/B 4p
4 3 2 1
PB01A
BB SOCKET 5P
GND
RMT IN
RMT OUT
+5V-1
PB02A
B/B SOCKET 4P
QB01
2SC5343-Y
C
B
RB03
1k
GND
6 5 3 1
0
SA01 CH UP
SA02 CH DN
SA03 VOL UP
SA04 VOL DN
SA05 VIDEO
SA06 MENU
RA73 10k
RA72 22k
RA71 68k
RA87 22k
PV03
JACK 1S3P
R
L/MONO
RC12 1k
RC11 1k
CC12 OPEN
CC11 OPEN
R669 22k
R668 22k
RV85 OPEN
2

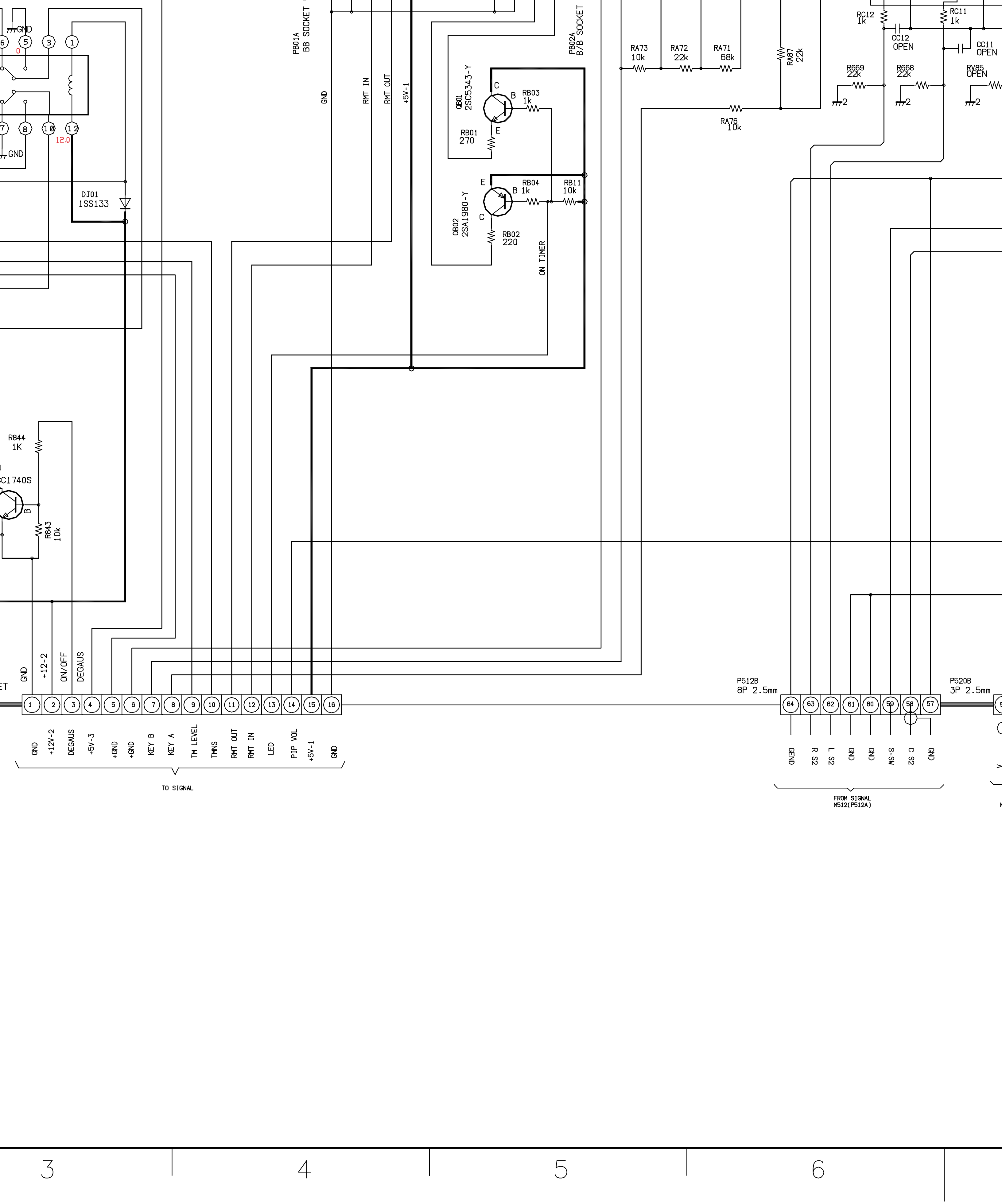
7 8 9 10



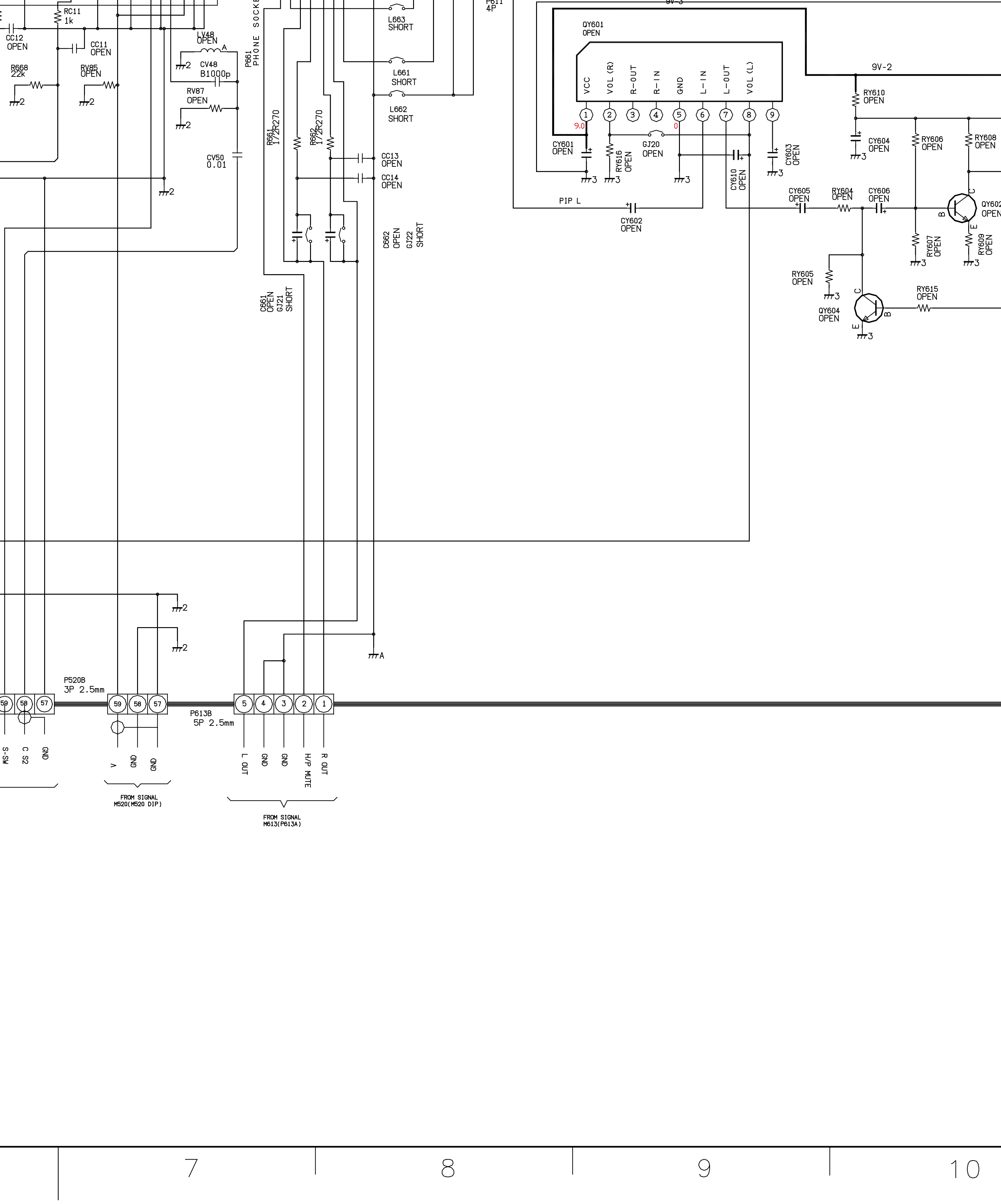
A431
SP BOX R
SN23150253
W661
SPK-1423AF
R-SPK
A432
SP BOX L
SN23150254
W662
SPK-1423AF
L-SPK
M601
M602
M611
AUDIO R
AUDIO L
GND
GND
73
74
75
76
P611
4P
1S3P
R
L/MONO
V
(FRONT)
VIDEO 3
P661
PHONE SOCKET
RC11
1k
CC12
OPEN
CC11
OPEN
LV48
OPEN
A
CV48
B1000p
R668
22k
RV85
OPEN
RV87
OPEN
2
L663
SHORT
L661
SHORT
L662
9V-3
9V-2
QY601
OPEN
VCC
VOL(R)
R-OUT
R-IN
GND
L-IN
L-OUT
VOL(L)
1
2
3
4
5
6
7
8
9
RY610
OPEN

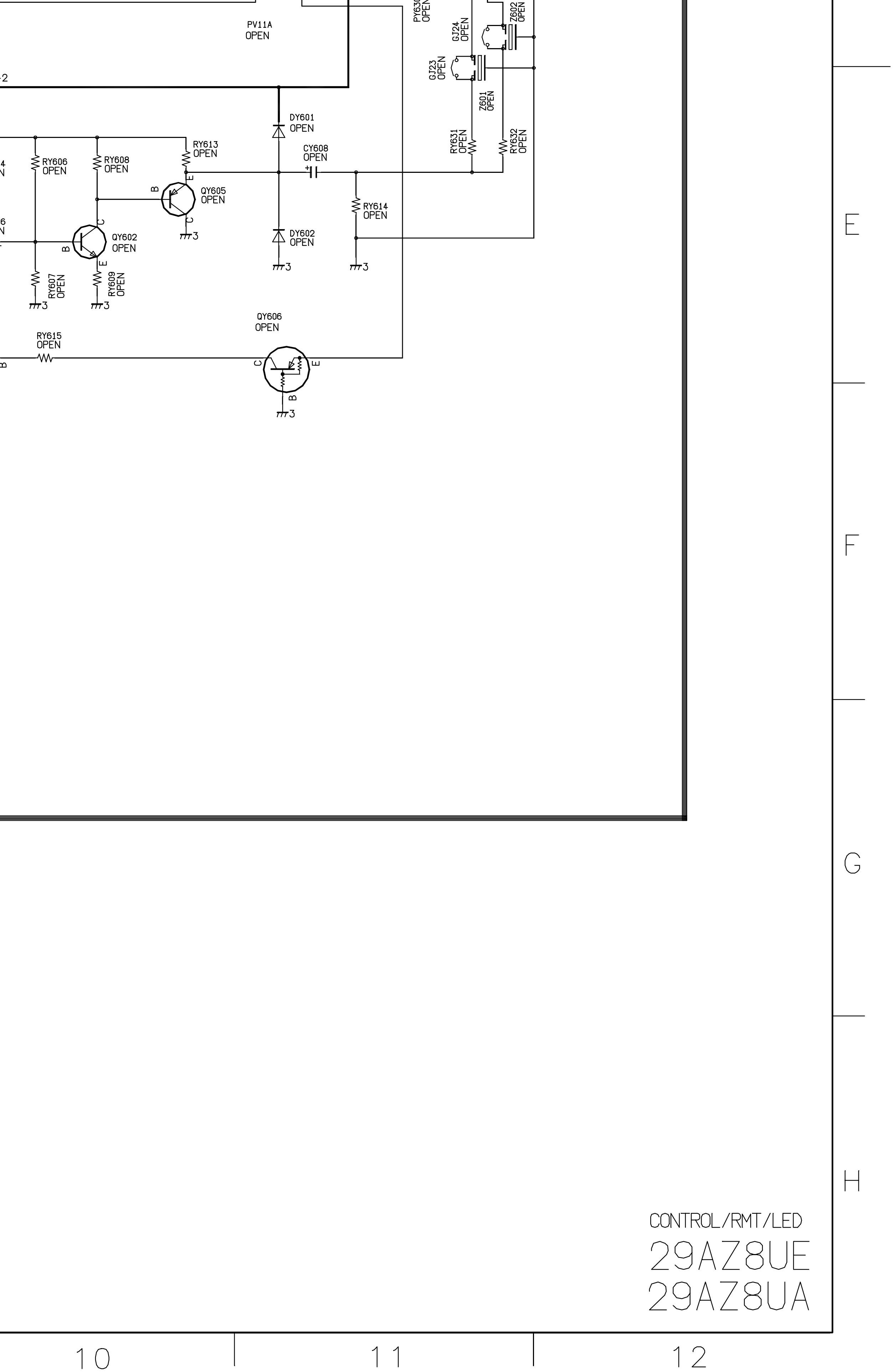

10
11
12
A
B
C
D
NOT USE
GND
PIP AUDIO
A MUTE
NC
9V-2
1
2
3
4
5
PV11A
OPEN
NOT USE
(PIP PHONE SOCKET)
PY630
OPEN
GJ24
OPEN
Z602
OPEN
GJ23
OPEN
Z601
OPEN
DY601
OPEN


QJ04
2SC1740S,Q
DC12V1A
SJ01
RA34
10k
RJ04
1k
QJ03
2SC4793
QA14
2SA933S,Q
TM LEVEL
CA14
0.01
RJ06
10k
RJ05
2R4.7
GND
TMNS
RJ02
1k
RJ01
10k
QJ02
2SC1740S
DJ02
MTZJ15C
orRD15ESAB3
orHZS15NB3
DJ01
1SS133
0
12.0
LJ901
TSB-2377AC
PJ901
3P 5mm
L901
RA TSB-2389AG
RB TSB-2389AC
R808
(RA) RZ92P2E4R5M1
(RB)RZ92P2E4R5M
SR83
G5PA-2 RELAY
R844
1K
D821
1SS133
Q821
2SC1740S
P910
2P 5mm
R811
2.2M
C812
OPEN
C825
M0.1
R843
10k
G821
SHORT
+12V-2
S801
POWER SW
P801B
3P
P802B
4P
FUSE SIDE
BB08B
BB 16P SOCKET
GND
+12-2
ON/OFF
DEGAUS
43
44
45
46
47
48
49
FROM POWER
M801(P801A)
FROM POWER
M802(P802B)
GND
+12V-2
DEGAUS
+5V-3
E
F
G
H
1
2
3



GND
0
12.0
DJ01
1SS133
PB01A
BB SOCKET
GND
RMT IN
RMT OUT
+5V-1
PB02A
B/B SOCKET
QB01
2SC5343-Y
C
B
E
RB03
1k
RB01
270
QB02
2SA1980-Y
E
B
C
RB04
1k
RB11
10k
RB02
220
ON TIMER
RA73
10k
RA72
22k
RA71
68k
RA87
22k
RA76
10k
RC12
1k
RC11
1k
CC12
OPEN
CC11
OPEN
R669
22k
R668
22k
RV85
OPEN
2
R844
1K
2SC1740S
R843
10k
B
GND
+12-2
ON/OFF
DEGAUS
GND
+12V-2
DEGAUS
+5V-3
+GND
+GND
KEY B
KEY A
TM LEVEL
TMNS
RMT OUT
RMT IN
LED
PIP VOL
+5V-1
GND
TO SIGNAL
P512B
8P 2.5mm
GEND
R S2
L S2
GND
GND
S-SW
C S2
GND
FROM SIGNAL
M512(P512A)
P520B
3P 2.5mm
3
4
5
6

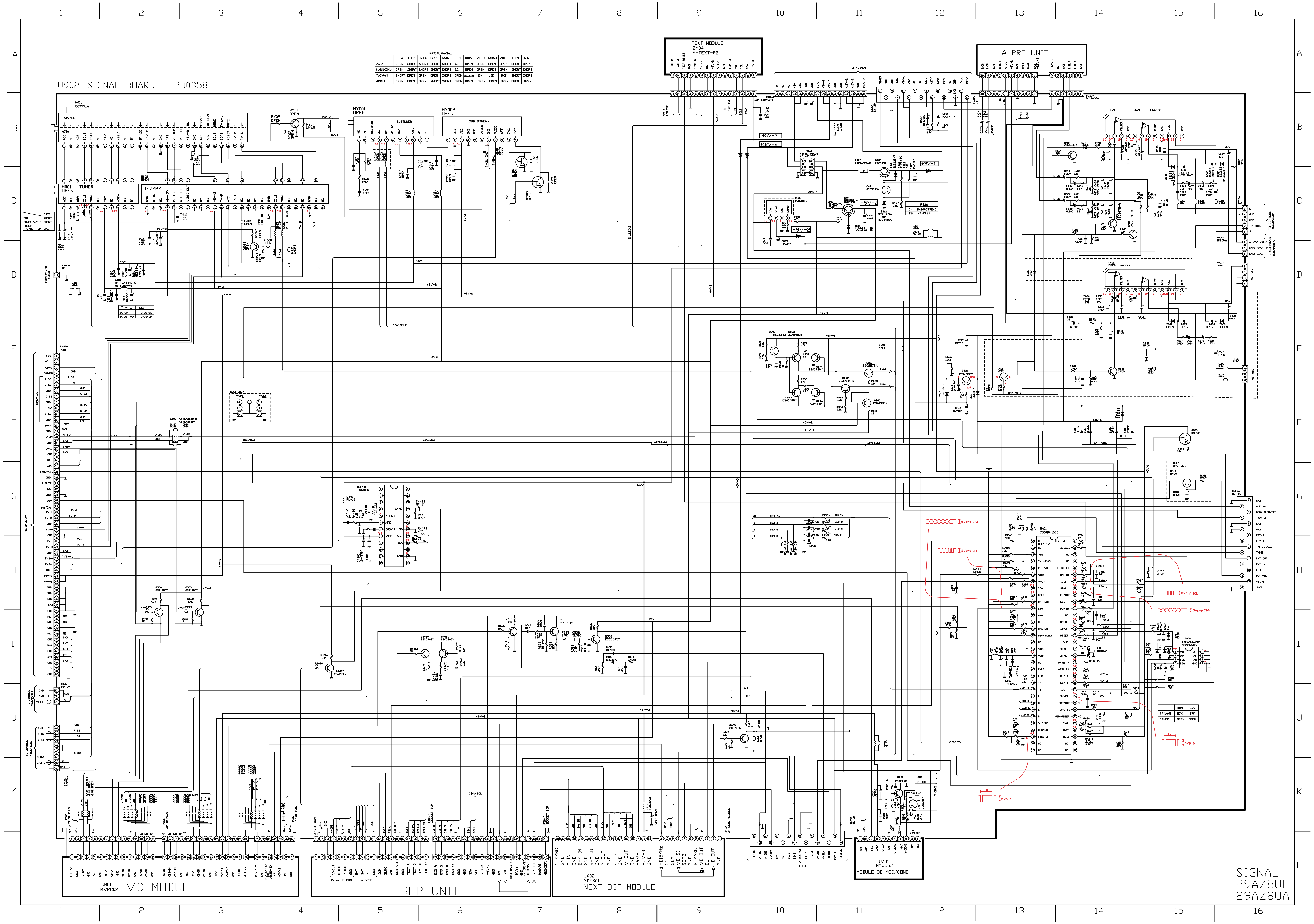

RC11
1k
CC12
OPEN
CC11
OPEN
LV48
OPEN
A
CV48
B1000p
R668
22k
RV85
OPEN
RV87
OPEN
CV50
0.01
2
P661
PHONE SOCKE
L663
SHORT
L661
SHORT
L662
SHORT
P611
4P
9V-3
R661
1/2R270
R662
1/2R270
CC13
OPEN
CC14
OPEN
C662
OPEN
GJ22
SHORT
C661
OPEN
GJ21
SHORT
QY601
OPEN
VCC
VOL (R)
R-OUT
R-IN
GND
L-IN
L-OUT
VOL (L)
1
2
3
4
5
6
7
8
9
9.0
0
CY601
OPEN
RY616
OPEN
GJ20
OPEN
CY610
OPEN
CY603
OPEN
3
PIP L
CY602
OPEN
9V-2
RY610
OPEN
CY604
OPEN
RY606
OPEN
RY608
OPEN
CY605
OPEN
RY604
OPEN
CY606
OPEN
QY602
OPEN
B
C
E
RY607
OPEN
RY609
OPEN
RY605
OPEN
QY604
OPEN
RY615
OPEN
P520B
3P 2.5mm
59
58
57
S-SW
C S2
GND
V
GND
GND
FROM SIGNAL
M520(M520 DIP)
P613B
5P 2.5mm
5
4
3
2
1
L OUT
GND
GND
H/P MUTE
R OUT
FROM SIGNAL
M613(P613A)
7
8
9
10


PV11A
OPEN
PY630
OPEN
GJ24
OPEN
Z602
OPEN
GJ23
OPEN
Z601
OPEN
DY601
OPEN
RY613
OPEN
CY608
OPEN
RY631
OPEN
RY632
OPEN
RY606
OPEN
RY608
OPEN
QY605
OPEN
RY614
OPEN
QY602
OPEN
DY602
OPEN
RY607
OPEN
RY609
OPEN
QY606
OPEN
RY615
OPEN
B
C
E
3
E
F
G
H
10
11
12

CONTROL/RMT/LED

29AZ8UE

29AZ8UA


U902 SIGNAL BOARD PD0358
TEXT MODULE ZY04 M-TEXT-P2
A PRO UNIT
TO POWER
H001 EC935LW
TAIWAN
ASIA
H001 OPEN TUNER
H002 OPEN IF/MPX
HY001 OPEN SUBTUNER
HY002 OPEN SUB IF(NEW)
QY10 OPEN
RY02 OPEN
L101 RA TLN3040AC RB TLN3040D
+32V
+9V-1
+5V-3
+12V-2
+9V-2
+5V-2
TEXT ONLY
Q4200 TA1218N
QA01 TMP87CS38N-1675
QA02 AT24C04-10PC
Q601 LA4282
Q602 OPEN
SDA
SCL
5Vp-p SDA
5Vp-p SCL
fV
5Vp-p
H/P MUTE
EXT MUTE
A.MUTE
ONLY S-VISION
UM01 MVPC02 VC-MODULE
BEP UNIT
UX02 MDFS01 NEXT DSF MODULE
UZ01 MYCJ32 MODULE 3D-YCS/COMB
TO DEF
FRONT AV
TO REAR AV

*AXIAL *AXIAL

	GJ04	GJ05	GJ06	G615	G616	C190	Q1060	R1067	R1068	R1069	GJY1	GJY2
ASIA	OPEN	SHORT	SHORT	SHORT	SHORT	0.01	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
KANNKOKU	OPEN	SHORT	SHORT	SHORT	SHORT	0.01	OPEN	OPEN	OPEN	OPEN	SHORT	SHORT
TAIWAN	SHORT	OPEN	OPEN	OPEN	SHORT	OPEN	2SC1815Y	10K	10K	100K	SHORT	SHORT
AMPLI	OPEN	OPEN	OPEN	SHORT	SHORT	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN

	GJ07
TIM	SHORT
TUNER W/PIP	SHORT
TUNER W/OUT PIP	OPEN

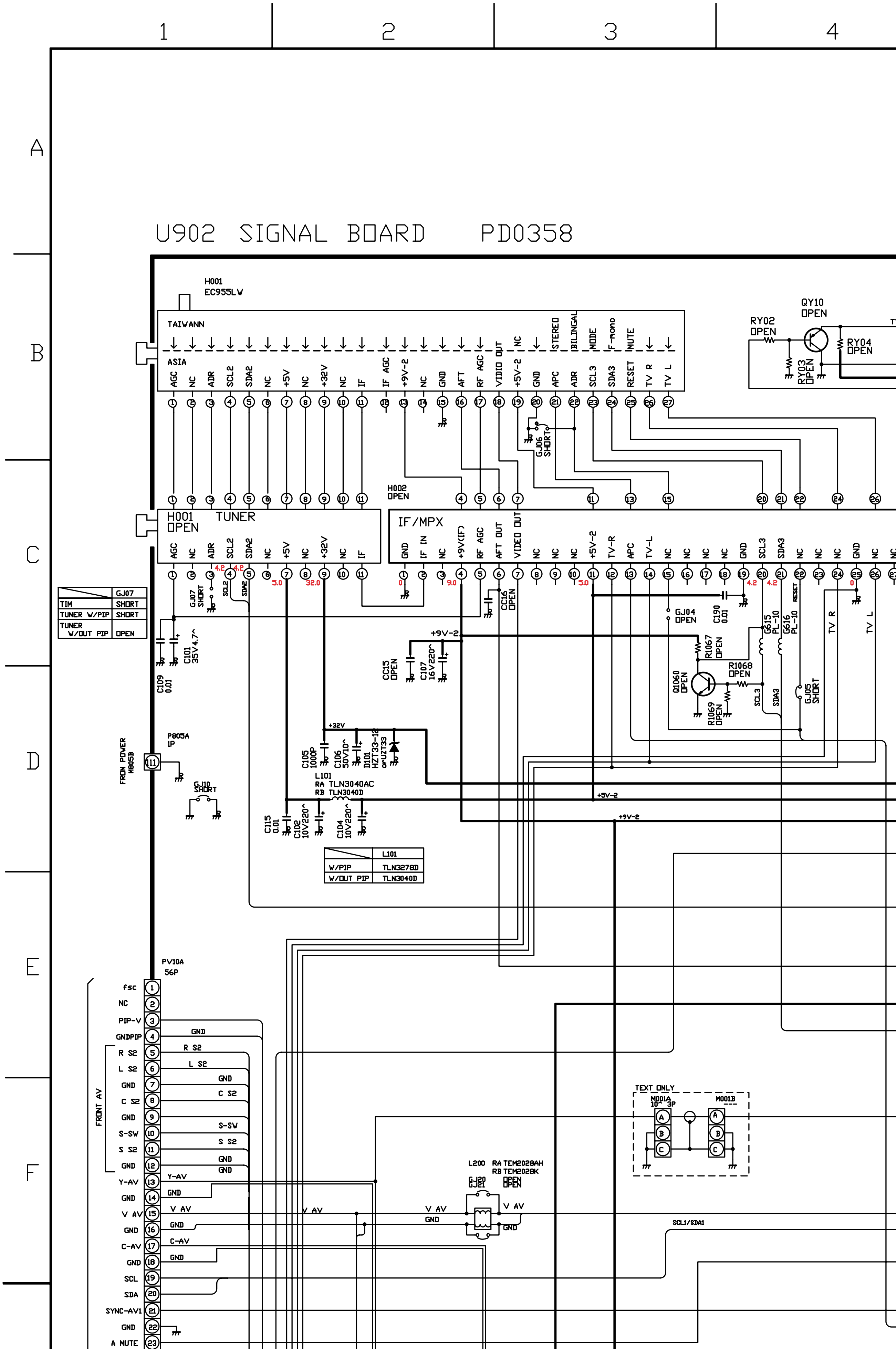
	L101
W/PIP	TLN3278D
W/OUT PIP	TLN3040D

	R426
34	SN24003924C
29	1/4W3.3K

	R191	R192
TAIWAN	27K	27K
OTHER	OPEN	OPEN

SIGNAL
29AZ8UE
29AZ8UA

U902 SIGNAL BOARD PD0358

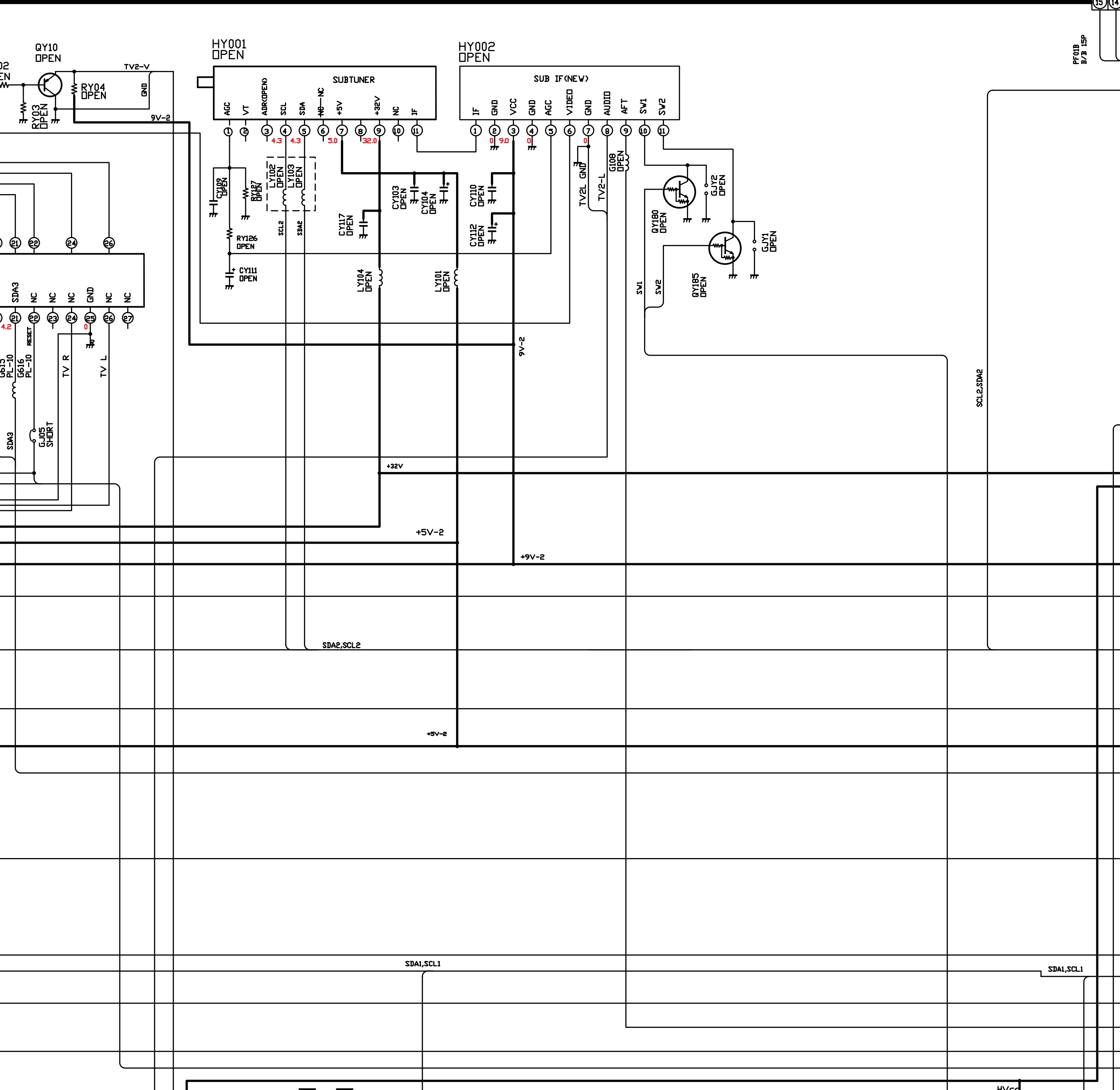

1
2
3
4
A
B
C
D
E
F
H001
EC955LW
TAIWANN
ASIA
AGC
NC
ADR
SCL2
SDA2
+5V
+32V
IF
IF AGC
+9V-2
GND
AFT
RF AGC
VIDIO OUT
+5V-2
STEREO
BILINGAL
MODE
F-mono
MUTE
APC
SCL3
SDA3
RESET
TV R
TV L
GJ06
SHORT
H002
OPEN
H001 TUNER
OPEN
IF/MPX
IF IN
+9V(IF)
VIDEO OUT
TV-R
TV-L
QY10
OPEN
RY02
OPEN
RY03
OPEN
RY04
OPEN
GJ07
SHORT
C109
0.01
C101
35V4.7^
CC15
OPEN
C107
16V220^
CC16
OPEN
GJ04
OPEN
C190
0.01
G615
PL-10
G616
PL-10
R1067
OPEN
R1068
OPEN
Q1060
OPEN
R1069
OPEN
GJ05
SHORT
4.2
32.0
5.0
9.0
0
+9V-2
+32V
C105
1000P
C106
50V10^
D101
HZT33-12
or UZT33
L101
RA TLN3040AC
RB TLN3040D
C115
0.01
C102
10V220^
C104
10V220^
+5V-2
P805A
1P
FROM POWER
M805B
111
GJ10
SHORT
PV10A
56P
FRONT AV
fsc
PIP-V
GNDPIP
R S2
L S2
C S2
S-SW
S S2
Y-AV
V AV
C-AV
SCL
SDA
SYNC-AV1
A MUTE
TEXT ONLY
M001A
10^ 3P
M001B
L200 RA TEM2028AH
RB TEM2028K
GJ20
GJ21
OPEN
OPEN
SCL1/SDA1

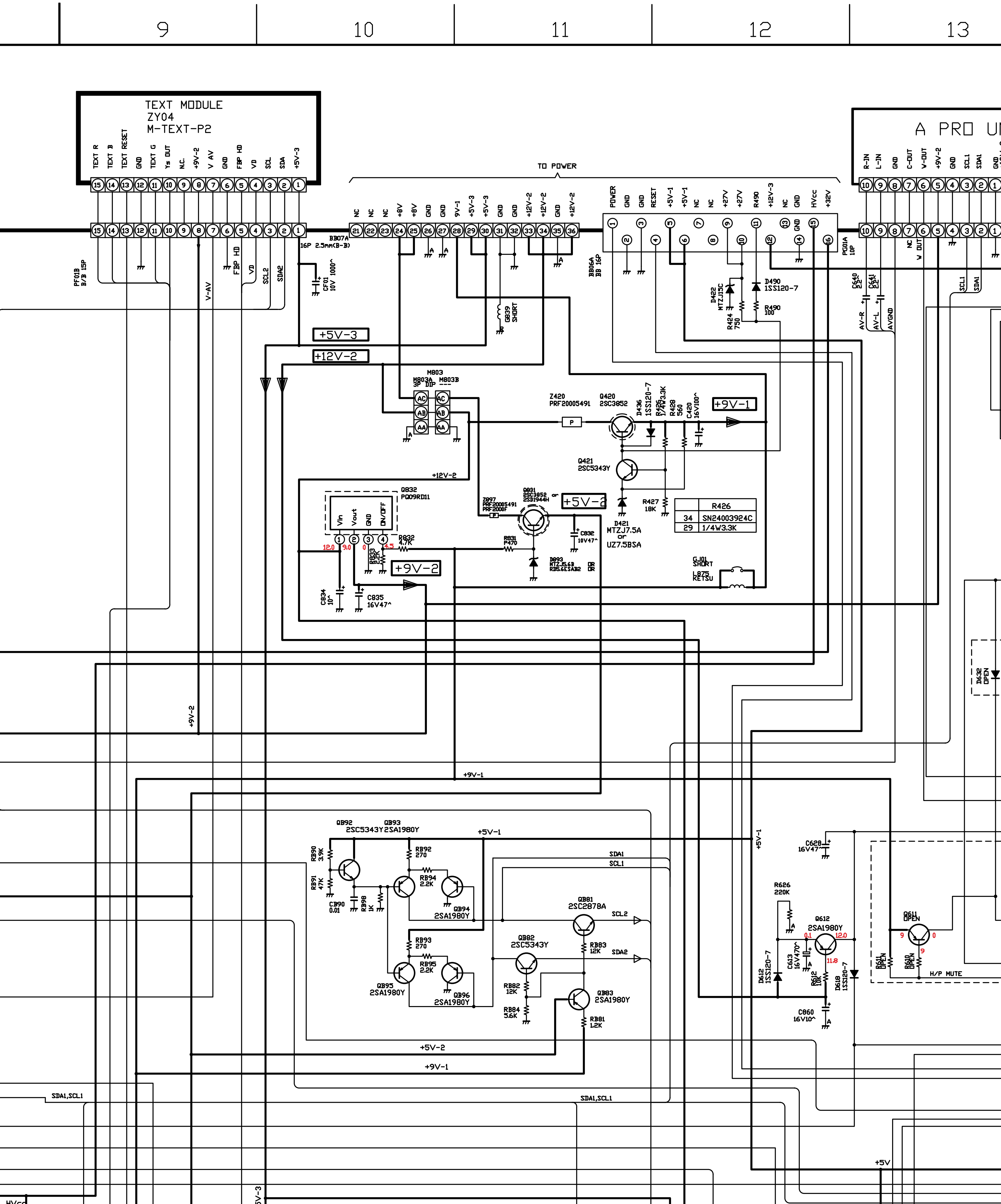
	GJ07
TIM	SHORT
TUNER W/PIP	SHORT
TUNER W/OUT PIP	OPEN

	L101
W/PIP	TLN3278D
W/OUT PIP	TLN3040D

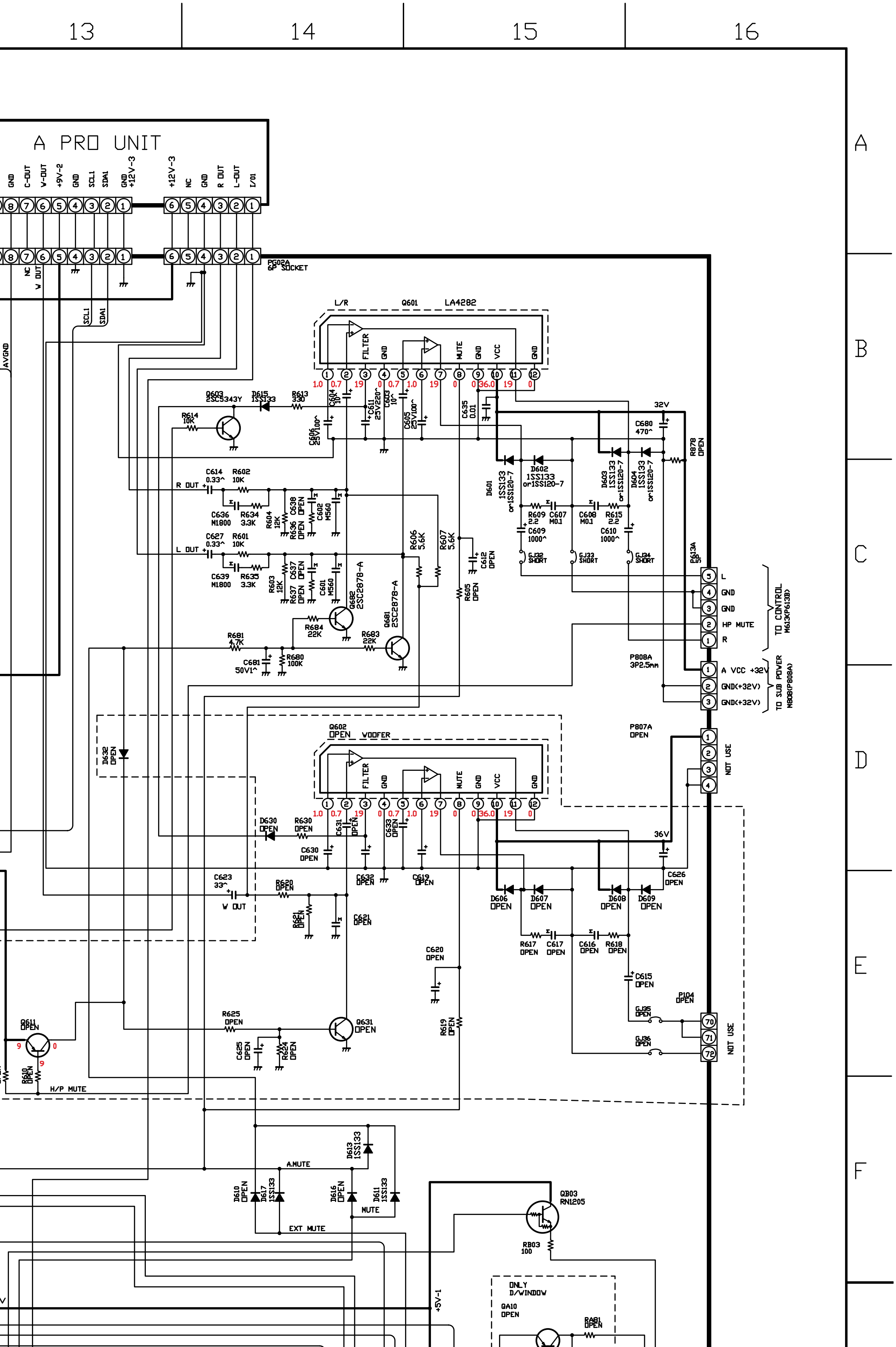
*AXIAL *AXIAL

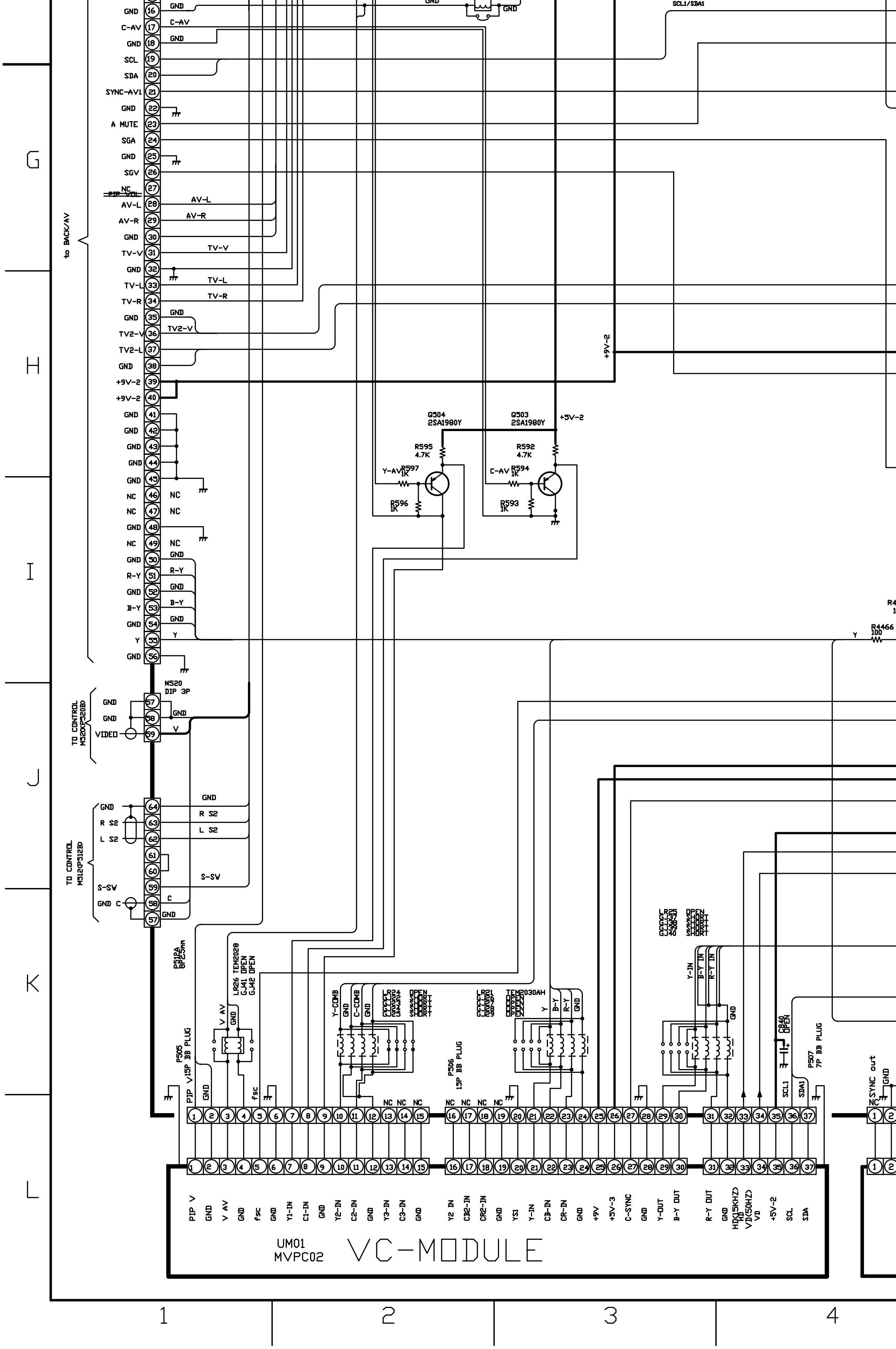
	GJ04	GJ05	GJ06	G615	G616	C190	Q1060	R1067	R1068	R1069	GJY1	GJY2
ASIA	OPEN	SHORT	SHORT	SHORT	SHORT	0.01	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
KANNKOKU	OPEN	SHORT	SHORT	SHORT	SHORT	0.01	OPEN	OPEN	OPEN	OPEN	SHORT	SHORT
TAIWAN	SHORT	OPEN	OPEN	OPEN	SHORT	OPEN	2SC1815Y	10K	10K	100K	SHORT	SHORT
AMPLI	OPEN	OPEN	OPEN	SHORT	SHORT	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN


4
5
6
7
8
TEXT R
TEXT B
15
14
PF01B
B/B 15P
QY10
OPEN
RY03
OPEN
RY04
OPEN
TV2-V
GND
9V-2
HY001
OPEN
SUBTUNER
AGC
VT
ADR(OPEN)
SCL
SDA
NC
NC
+5V
+32V
NC
IF
1
2
3
4
5
6
7
8
9
10
11
4.3
4.3
5.0
32.0
CY109
OPEN
RY127
OPEN
LY102
OPEN
LY103
OPEN
SCL2
SDA2
RY126
OPEN
CY111
OPEN
CY117
OPEN
CY103
OPEN
CY104
OPEN
LY104
OPEN
LY101
OPEN
HY002
OPEN
SUB IF(NEW)
IF
GND
VCC
GND
AGC
VIDEO
GND
AUDIO
AFT
SW1
SW2
0
9.0
0
0
CY110
OPEN
CY112
OPEN
TV2L GND
TV2-L
G108
OPEN
GJY2
OPEN
QY180
OPEN
GJY1
OPEN
QY185
OPEN
SW1
SW2
9V-2
SDA3
NC
NC
NC
GND
NC
NC
21
22
24
26
21
22
23
24
25
26
27
4.2
0
RESET
G615
PL-10
G616
PL-10
TV R
TV L
GJ05
SHORT
SDA3
+32V
+5V-2
+9V-2
SCL2,SDA2
SDA2,SCL2
+5V-2
SDA1,SCL1
SDA1,SCL1

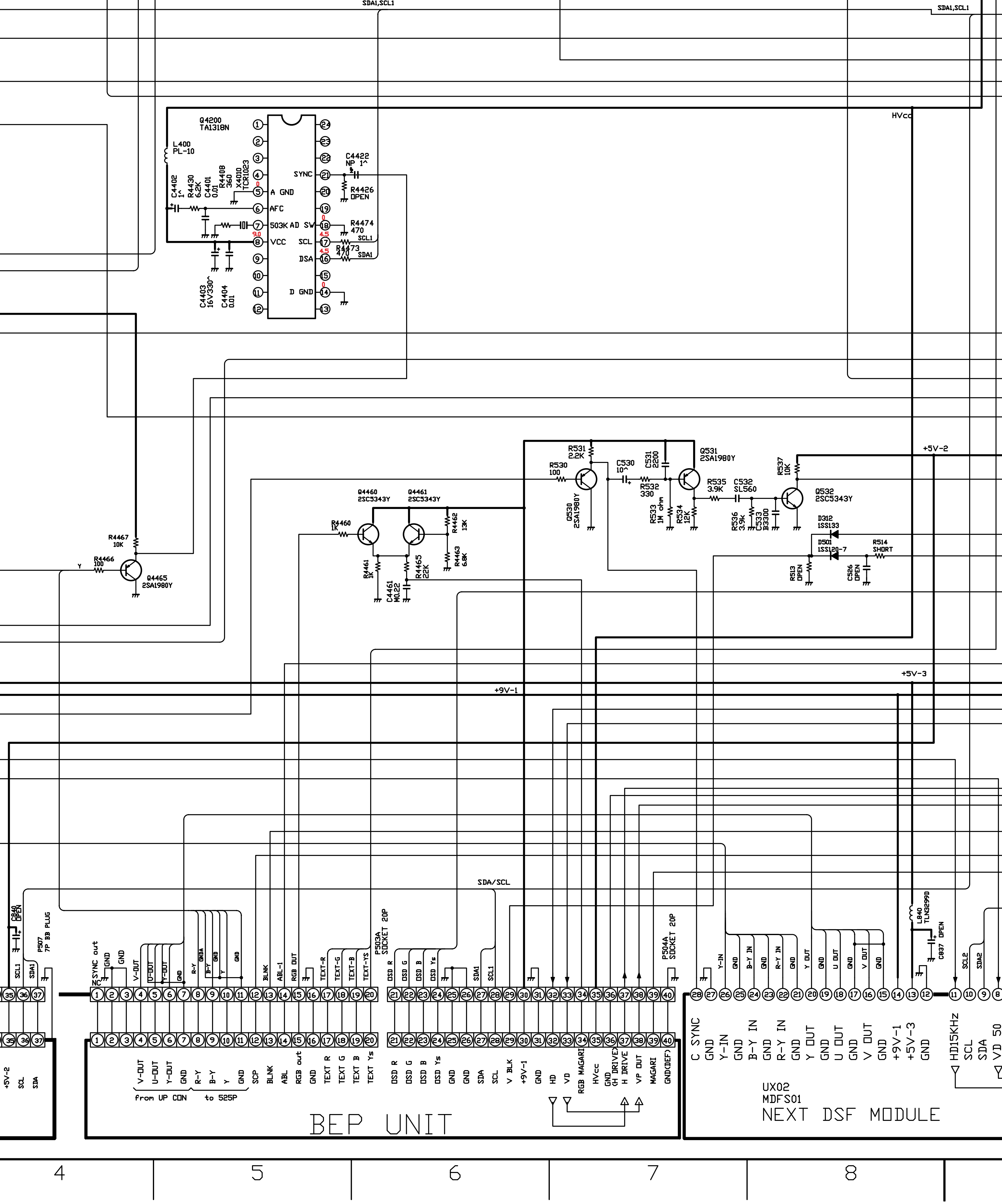

9
10
11
12
13
TEXT MODULE
ZY04
M-TEXT-P2
TEXT R
TEXT B
TEXT RESET
GND
TEXT G
Ys OUT
N.C.
+9V-2
V AV
GND
FBP HD
VD
SCL
SDA
+5V-3
PF01B
B/B 15P
V-AV
FBP HD
VD
SCL2
SDA2
TO POWER
NC
NC
NC
+8V
+8V
GND
GND
9V-1
+5V-3
+5V-3
GND
GND
+12V-2
+12V-2
GND
+12V-2
BB07A
16P 2.5mm(B-B)
CF01
10V 1000^
GB39
SHORT
POWER
GND
GND
RESET
+5V-1
+5V-1
NC
+27V
+27V
R490
+12V-3
NC
GND
HVcc
+32V
BB06A
BB 16P
PG01A
10P
D422
MTZJ15C
R424
750
D490
1SS120-7
R490
100
A PRO UN
R-IN
L-IN
GND
C-OUT
V-OUT
+9V-2
GND
SCL1
SDA1
NC
V OUT
C640
2.2^
C641
2.2^
AV-R
AV-L
AVGND
SCL1
SDA1
+5V-3
+12V-2
M803
M803A
3P DIP
M803B

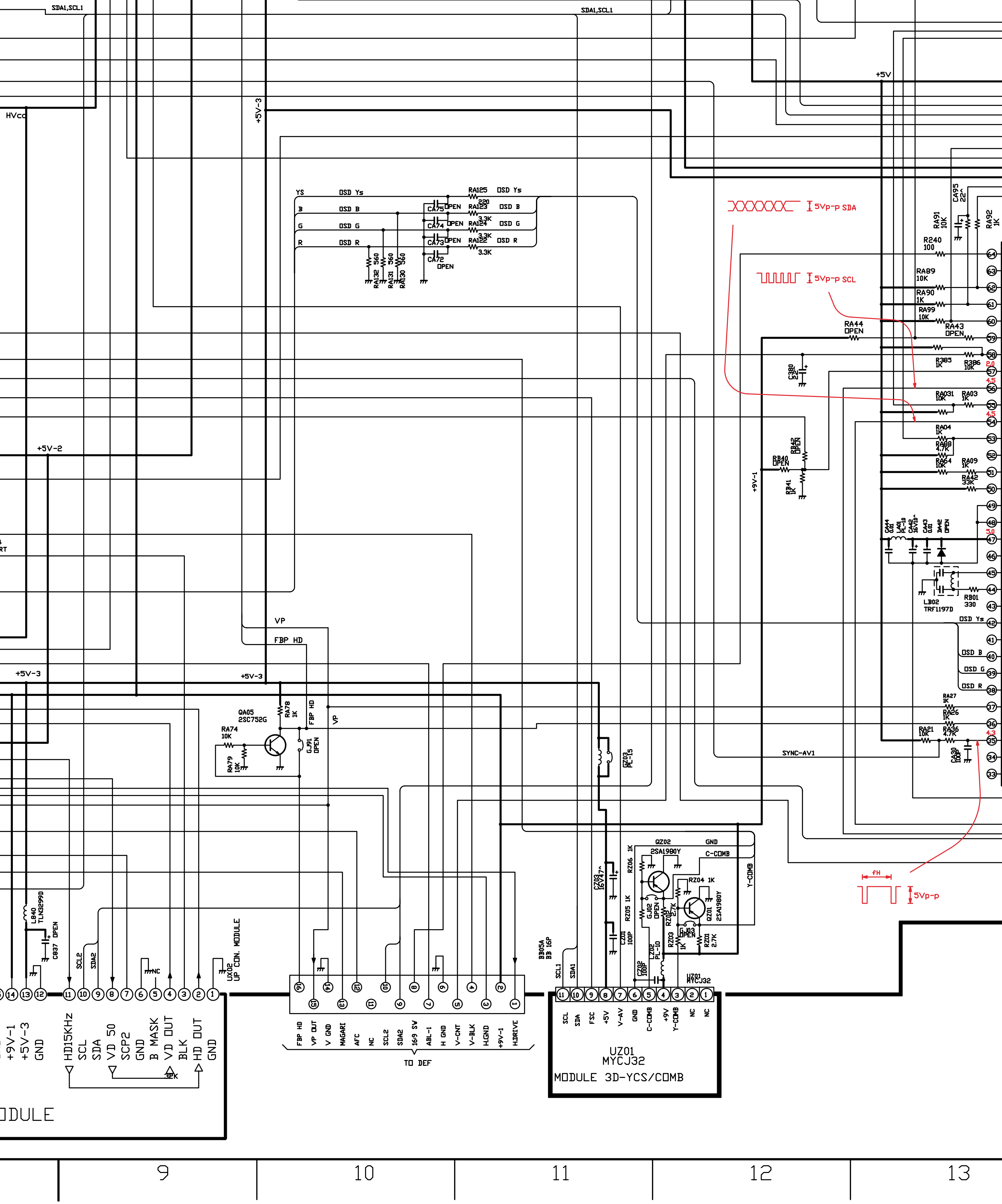
AC
AB
AA
Z420
PRF20005491
Q420
2SC3852
D436
1SS120-7
R426
1/4W3.3K
R428
560
C420
16V100^
+9V-1
Q421
2SC5343Y
+12V-2
Q832
PQ09RD11
Vin
Vout
GND
ON/OFF
Z097
PRF20005491
PRF2000F
Q831
2SC3852
or
2SD1944H
+5V-2
R427
18K
D421
MTZJ7.5A
or
UZ7.5BSA
R426
34 SN24003924C
29 1/4W3.3K
C832
10V47^
R831
P470
R832
4.7K
R833
22K
12.0
9.0
0
4.5
+9V-2
D893
MTZJ5.6B
RD5.6ESAB2
OR
OR
GJ01
SHORT
L875
KETSU
C834
10^
C835
16V47^
+9V-2
+9V-1
D632
OPEN
QB92
2SC5343Y
QB93
2SA1980Y
+5V-1
RB90
3.9K
RB91
47K
RB92
270
RB94
2.2K
CB90
0.01
RB98
1K
QB94
2SA1980Y
SDA1
SCL1
QB81
2SC2878A
SCL2
RB93
270
RB95
2.2K
QB82
2SC5343Y
RB83
12K
SDA2
QB95
2SA1980Y
QB96
2SA1980Y
RB82
12K
RB84
5.6K
QB83
2SA1980Y
RB81
1.2K
+5V-2
+9V-1
SDA1,SCL1
SDA1,SCL1
+5V-1
C628
16V47^
R626
220K
Q612
2SA1980Y
0.1
12.0
11.8
Q611
OPEN
9
0
9
C613
16V470^
D612
1SS120-7
R612
10K
D618
1SS120-7
R611
OPEN
R610
OPEN
H/P MUTE
C660
16V10^
+5V
HVcc
5V-3

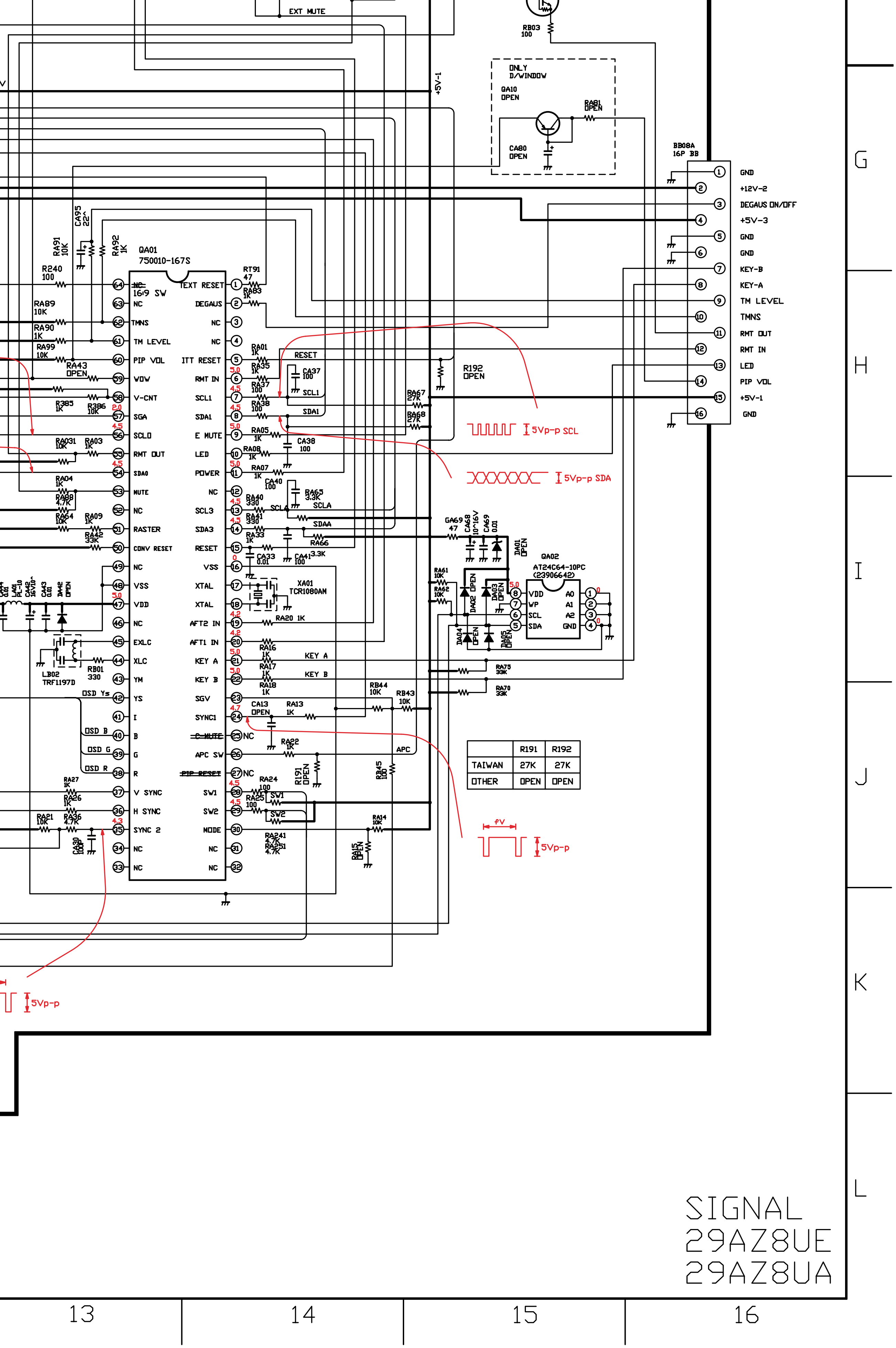

13
14
15
16
A
B
C
D
E
F
A PRO UNIT
GND
C-OUT
V-OUT
+9V-2
GND
SCL1
SDA1
GND
+12V-3
+12V-3
NC
GND
R OUT
L-OUT
I/O1
PG02A
6P SOCKET
NC
W OUT
SCL1
SDA1
AVGND
L/R
Q601
LA4282
FILTER
GND
MUTE
GND
VCC
GND
Q603
2SC5343Y
D615
1SS133
R613
330
R614
10K
C604
10^
C611
25V220^
C603
10^
C606
25V100^
C605
25V100^
C635
0.01
32V
C680
470^
R878
OPEN
D601
1SS133
or1SS120-7
D602
1SS133
or1SS120-7
D603
1SS133
or1SS120-7
D604
1SS133
or1SS120-7
R609
2.2
C607
M0.1
C608
M0.1
R615
2.2
C609
1000^
C610
1000^
GJ32
SHORT
GJ33
SHORT
GJ34
SHORT
C614
0.33^
R602
10K
R OUT
C636
M1800
R634
3.3K
R604
12K
R636
OPEN
C638
OPEN
C602
M560
C627
0.33^
R601
10K
L OUT
C639
M1800
R635
3.3K
R603
12K
R637
OPEN
C637
OPEN
C601
M560
R606
5.6K
R607
5.6K
C612
OPEN
R605
OPEN
Q682
2SC2878-A
Q681
2SC2878-A
R684
22K
R683
22K
R681
4.7K
C681
50V1^
R680
100K
P613A
5P
L
GND
GND
HP MUTE
R
TO CONTROL
M613(P613B)
P808A
3P2.5mm
A VCC +32V
GND(+32V)
GND(+32V)
TO SUB POWER
M808(P808A)
P807A
OPEN
NOT USE
D632
OPEN
Q602
OPEN
WOOFER
D630
OPEN
R630
OPEN
C631
OPEN
C634
OPEN
C633
OPEN
C630
OPEN
36V
C632
OPEN
C619
OPEN
C626
OPEN
C623
33^
W OUT
R620
OPEN
R621
OPEN
C621
OPEN
D606
OPEN
D607
OPEN
D608
OPEN
D609
OPEN
R617
OPEN
C617
OPEN
C616
OPEN
R618
OPEN
C620
OPEN
C615
OPEN
P104
OPEN
GJ35
OPEN
GJ36
OPEN
70
71
72
NOT USE
Q611
OPEN
R625
OPEN
Q631
OPEN
C625
OPEN
R624
OPEN
R619
OPEN
R610
OPEN
H/P MUTE
D613
1SS133
A.MUTE
D610
OPEN
D617
1SS133
D616
OPEN
D611
1SS133
MUTE
EXT MUTE
QB03
RN1205
RB03
100
+5V-1
ONLY
D/WINDOW
QA10
OPEN
RA81
OPEN



GND 16
C-AV 17
GND 18
SCL 19
SDA 20
SYNC-AV1 21
GND 22
A MUTE 23
SGA 24
GND 25
SGV 26
NC
~~PIP VOL~~ 27
AV-L 28
AV-R 29
GND 30
TV-V 31
GND 32
TV-L 33
TV-R 34
GND 35
TV2-V 36
TV2-L 37
GND 38
+9V-2 39
+9V-2 40
GND 41
GND 42
GND 43
GND 44
GND 45
NC 46
NC 47
GND 48
NC 49
GND 50
R-Y 51
GND 52
B-Y 53
GND 54
Y 55
GND 56
to BACK/AV
GND
C-AV
GND
AV-L
AV-R
TV-V
TV-L
TV-R
GND
TV2-V
NC
NC
NC
GND
R-Y
GND
B-Y
GND
Y
SCL1/SDA1
+9V-2
Q504
2SA1980Y
Q503
2SA1980Y
+5V-2
R595
4.7K
R592
4.7K
Y-AV
R597
1K
C-AV
R594
1K
R596
1K
R593
1K
R4466
100
Y
M520
DIP 3P
TO CONTROL
M520(P520B)
GND 57
GND 58
VIDEO 59
GND
V
GND
R S2
L S2
S-SW
C
GND
TO CONTROL
M512(P512B)
GND 64
R S2 63
L S2 62
61
60
S-SW 59
GND C 58
57
P512A
8P2.5mm
LR26 TEM2028
GJ41 OPEN
GJ42 OPEN
V AV
GND
P505
15P BB PLUG
PIP V
GND
fsc
Y-COMB
C-COMB
GND
LR24 OPEN
GJ33 SHORT
GJ34 SHORT
GJ35 SHORT
GJ36 SHORT
LR21 TEM2030AH
Y
B-Y
R-Y
GND
P506
15P BB PLUG
NC NC NC
NC NC NC NC
LR25 OPEN
GJ37 SHORT
GJ38 SHORT
GJ39 SHORT
GJ40 SHORT
Y-IN
B-Y IN
R-Y IN
GND
C840
OPEN
P507
7P BB PLUG
SCL1
SDA1
SYNC out
GND
NC
PIP V
GND
V AV
GND
fsc
GND
Y1-IN
C1-IN
GND
Y2-IN
C2-IN
GND
Y3-IN
C3-IN
GND
Y2 IN
CB2-IN
CR2-IN
GND
YS1
Y-IN
CB-IN
CR-IN
GND
+9V
+5V-3
C-SYNC
GND
Y-OUT
B-Y OUT
R-Y OUT
GND
HD(15KHZ)
VD(50HZ)
VD
+5V-2
SCL
SDA
UM01
MVPC02
VC-MODULE
G
H
I
J
K
L
1
2
3
4


SDA1,SCL1
SDA1,SCL1
HVcc
Q4200
TA1318N
L400
PL-10
C4402
1^
R4430
6.2K
C4401
0.01
R4408
360
X4010
TCR1023
SYNC
A GND
AFC
503K
AD SW
VCC
SCL
DSA
D GND
0
0
9.0
4.5
4.5
0
C4422
NP 1^
R4426
OPEN
R4474
470
R4473
470
SCL1
SDA1
C4403
16V330^
C4404
0.01
R531
2.2K
R530
100
Q530
2SA1980Y
C530
10^
C531
2200
R532
330
R533
1M ohm
R534
12K
Q531
2SA1980Y
R535
3.9K
C532
SL560
R536
3.9k
C533
B3300
R537
10K
Q532
2SC5343Y
+5V-2
D312
1SS133
D501
1SS120-7
R514
SHORT
R513
OPEN
C526
OPEN
Q4460
2SC5343Y
Q4461
2SC5343Y
R4460
1K
R4462
13K
R4461
1K
R4465
22K
R4463
6.8K
C4461
M0.22
R4467
10K
R4466
100
Y
Q4465
2SA1980Y
+9V-1
+5V-3
SDA/SCL
C840
OPEN
P507
7P BB PLUG
SCL1
SDA1
35
36
37
+5V-2
SCL
SDA
SYNC out
NC
GND
GND
V-OUT
U-OUT
Y-OUT
GND
R-Y
GNDA
B-Y
GND
Y
GND
BLNK
ABL-1
RGB OUT
TEXT-R
TEXT-G
TEXT-B
TEXT-YS
P503A
SOCKET 20P
OSD R
OSD G
OSD B
OSD Ys
SDA1
SCL1
P504A
SOCKET 20P
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
V-OUT
U-OUT
Y-OUT
GND
R-Y
B-Y
Y
GND
SCP
BLNK
ABL
RGB out
GND
TEXT R
TEXT G
TEXT B
TEXT Ys
OSD R
OSD G
OSD B
OSD Ys
GND
GND
SDA
SCL
V BLK
+9V-1
GND
HD
VD
RGB MAGARI
HVcc
GND (H DRIVE)
H DRIVE
VP OUT
MAGARI
GND(DEF)
from UP CON
to 525P
BEP UNIT
28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8
Y-IN
GND
B-Y IN
GND
R-Y IN
GND
Y OUT
GND
U OUT
GND
V OUT
GND
L840
TLN3299D
C837 OPEN
SCL2
SDA2
C SYNC
GND
Y-IN
GND
B-Y IN
GND
R-Y IN
GND
Y OUT
GND
U OUT
GND
V OUT
GND
+9V-1
+5V-3
GND
HD15KHz
SCL
SDA
VD 50
UX02
MDFS01
NEXT DSF MODULE
4
5
6
7
8


SDA1,SCL1
SDA1,SCL1
HVcc
+5V-3
+5V
YS
OSD Ys
B
OSD B
G
OSD G
R
OSD R
RA125
220
RA123
3.3K
RA124
3.3K
RA122
3.3K
CA75
CA74
CA73
CA72
OPEN
RA132
RA131
RA130
560
5Vp-p SDA
5Vp-p SCL
RA91
10K
CA95
22μ
RA92
1K
R240
100
RA89
10K
RA90
1K
RA99
10K
RA43
OPEN
RA44
OPEN
C380
R385
1K
R386
10K
RA031
10K
RA03
1K
RA04
1K
RA88
4.7K
RA64
10K
RA409
1K
RA442
33K
RB40
OPEN
RB42
OPEN
RB41
1K
+9V-1
+5V-2
CA44
LA41
CA42
CA43
DA42
LB02
TRF1197D
RB01
330
OSD Ys
OSD B
OSD G
OSD R
RA27
1K
RA26
1K
RA36
4.7K
RA21
10K
CA30
100P
SYNC-AV1
2.0
4.5
4.5
4.5
5.0
4.3
VP
FBP HD
+5V-3
+5V-3
QA05
2SC752G
RA74
10K
RA79
10K
RA78
1K
FBP HD
VP
GJ91
OPEN
GZ03
PL-15
CZ03
16V47μ
CZ01
100P
CZ02
100P
LZ02
PL-10
QZ02
2SA1980Y
GND
C-COMB
Y-COMB
RZ06 1K
RZ05 1K
GJ02
OPEN
RZ02
2.7K
RZ04 1K
QZ01
2SA1980Y
RZ03
1K
GJ03
OPEN
RZ01
2.7K
fH
5Vp-p
L840
TLN3299D
C837 OPEN
SCL2
SDA2
NC
UX02
UP CON. MODULE
+9V-1
+5V-3
GND
HD15KHz
SCL
SDA
VD 50
SCP2
GND
B MASK
VD OUT
BLK
HD OUT
GND
3PK
DULE
FBP HD
VP OUT
V GND
MAGARI
AFC
NC
SCL2
SDA2
16:9 SW
ABL-1
H GND
V-CNT
V-BLK
H.GND
+9V-1
H.DRIVE
TO DEF
BB05A
BB 16P
SCL1
SDA1
UZ01
MYCJ32
SCL
SDA
FSC
+5V
V-AV
GND
C-COMB
+9V
Y-COMB
NC
NC
UZ01
MYCJ32
MODULE 3D-YCS/COMB
9
10
11
12
13

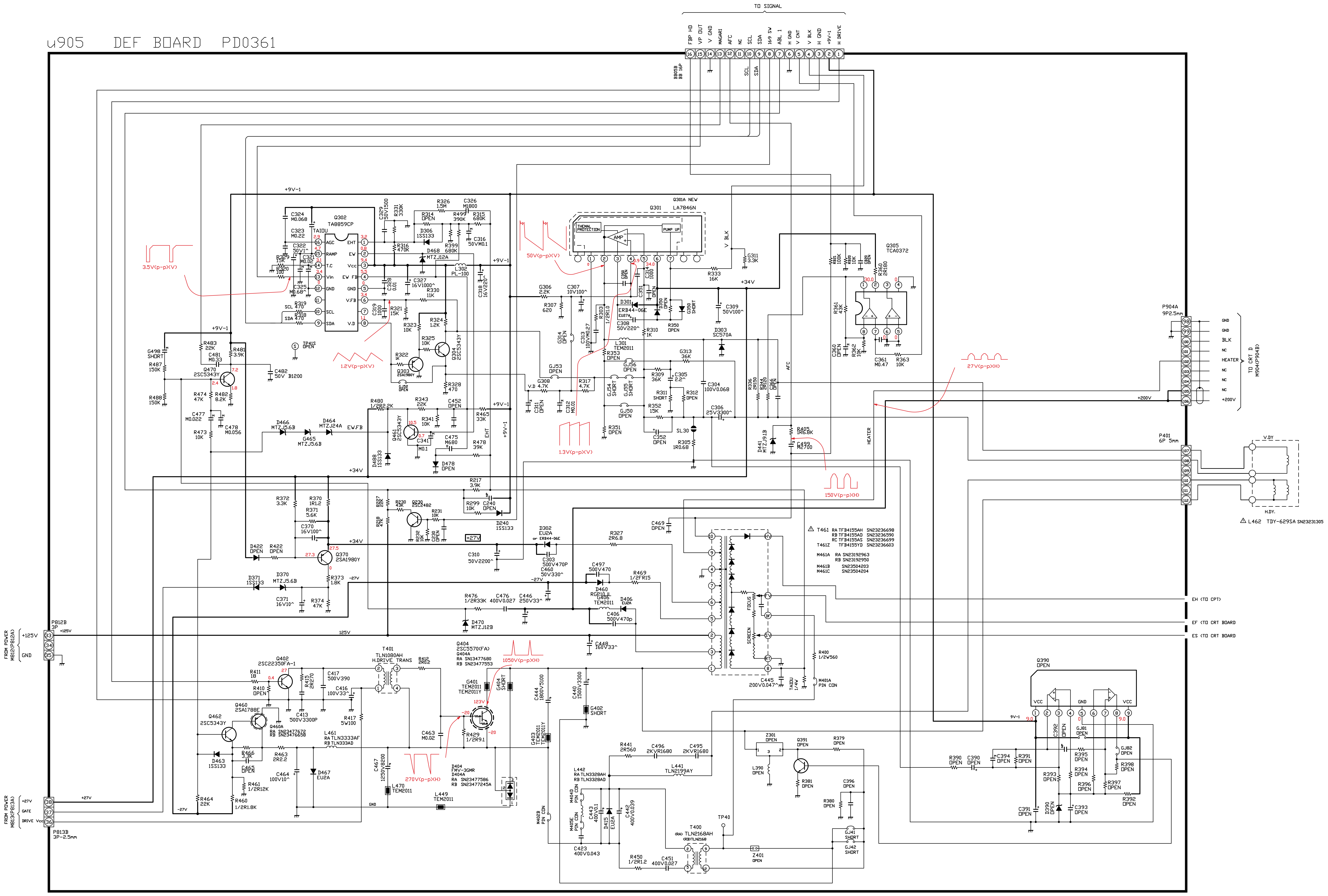

EXT MUTE
RB03 100
+5V-1
ONLY D/WINDOW
QA10 OPEN
RA81 OPEN
CA80 OPEN
BB08A 16P BB
GND
+12V-2
DEGAUS ON/OFF
+5V-3
GND
GND
KEY-B
KEY-A
TM LEVEL
TMNS
RMT OUT
RMT IN
LED
PIP VOL
+5V-1
GND
QA01 750010-167S
RA91 10K
CA95 22^
RA92 1K
R240 100
RA89 10K
RA90 1K
RA99 10K
RA43 OPEN
R385 1K
R386 10K
RA031 10K
RA03 1K
RA04 1K
RA98 4.7K
RA64 10K
RA09 1K
RA442 33K
NC 16:9 SW
NC
TMNS
TM LEVEL
PIP VOL
VOW
V-CNT
SGA
SCL0
RMT OUT
SDA0
MUTE
NC
RASTER
CONV RESET
NC
VSS
VDD
NC
EXLC
XLC
YM
YS
I
B
G
R
V SYNC
H SYNC
SYNC 2
NC
NC
TEXT RESET
DEGAUS
NC
NC
ITT RESET
RMT IN
SCL1
SDA1
E MUTE
LED
POWER
NC
SCL3
SDA3
RESET
VSS
XTAL
XTAL
AFT2 IN
AFT1 IN
KEY A
KEY B
SGV
SYNC1
C-MUTE NC
APC SW
PIP RESET NC
SW1
SW2
MODE
NC
NC
RT91 47
RA83 1K
RA01 1K
RESET
RA35 1K
CA37 100
RA37 100
SCL1
RA38 100
SDA1
RA05 1K
CA38 100
RA08 1K
RA07 1K
CA40 100
RA65 3.3K
RA40 330
SCLA
RA41 330
SDAA
RA33 1K
RA66
CA33 0.01
CA41 100
3.3K
XA01 TCR1080AM
RA20 1K
RA16 1K
RA17 1K
RA18 1K
KEY A
KEY B
CA13 OPEN
RA13 1K
RA22 1K
R191 OPEN
RA24 100
RA25 100
SW1
SW2
RA241 4.7K
RA251 4.7K
RB44 10K
RB43 10K
RB45 100
APC
RA14 10K
RA15 OPEN
R192 OPEN
RA67 27K
RA68 27K
5Vp-p SCL
5Vp-p SDA
GA69 47
CA68 10^16V
CA69 0.01
DA01 OPEN
QA02 AT24C64-10PC (23906642)
VDD
WP
SCL
SDA
A0
A1
A2
GND
RA61 10K
RA62 10K
DA02 OPEN
DA03 OPEN
DA04 OPEN
DA05 OPEN
RA75 33K
RA70 33K
fV
5Vp-p
LA01 PL-10
CA42 16V10^
CA43 0.01
DA42 OPEN
LB02 TRF1197D
RB01 330
OSD Ys
OSD B
OSD G
OSD R
RA27 1K
RA26 1K
RA21 10K
RA36 4.7K
CA39
5Vp-p
G
H
I
J
K
L

	R191	R192
TAIWAN	27K	27K
OTHER	OPEN	OPEN

SIGNAL
29AZ8UE
29AZ8UA

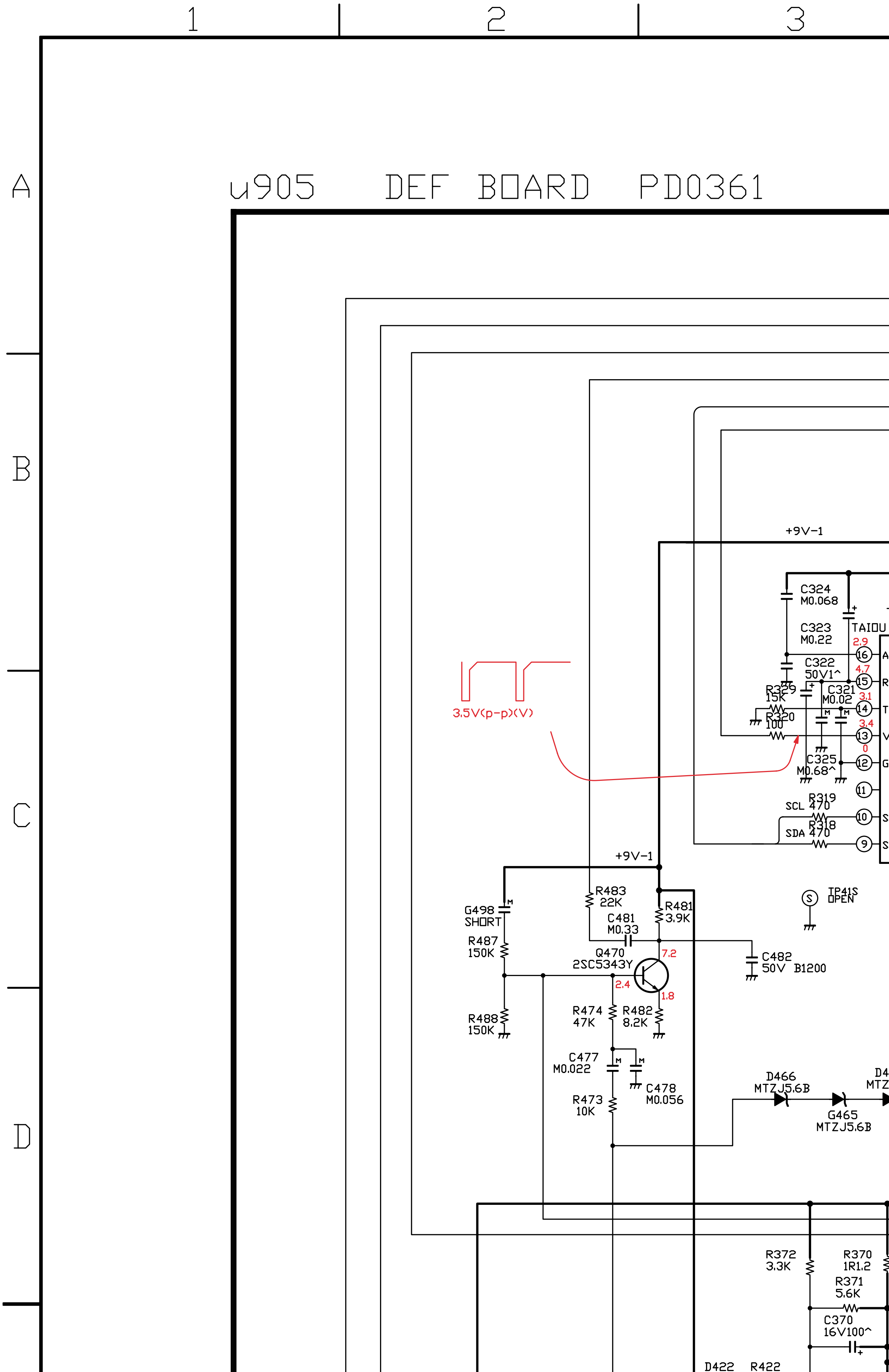
13 14 15 16

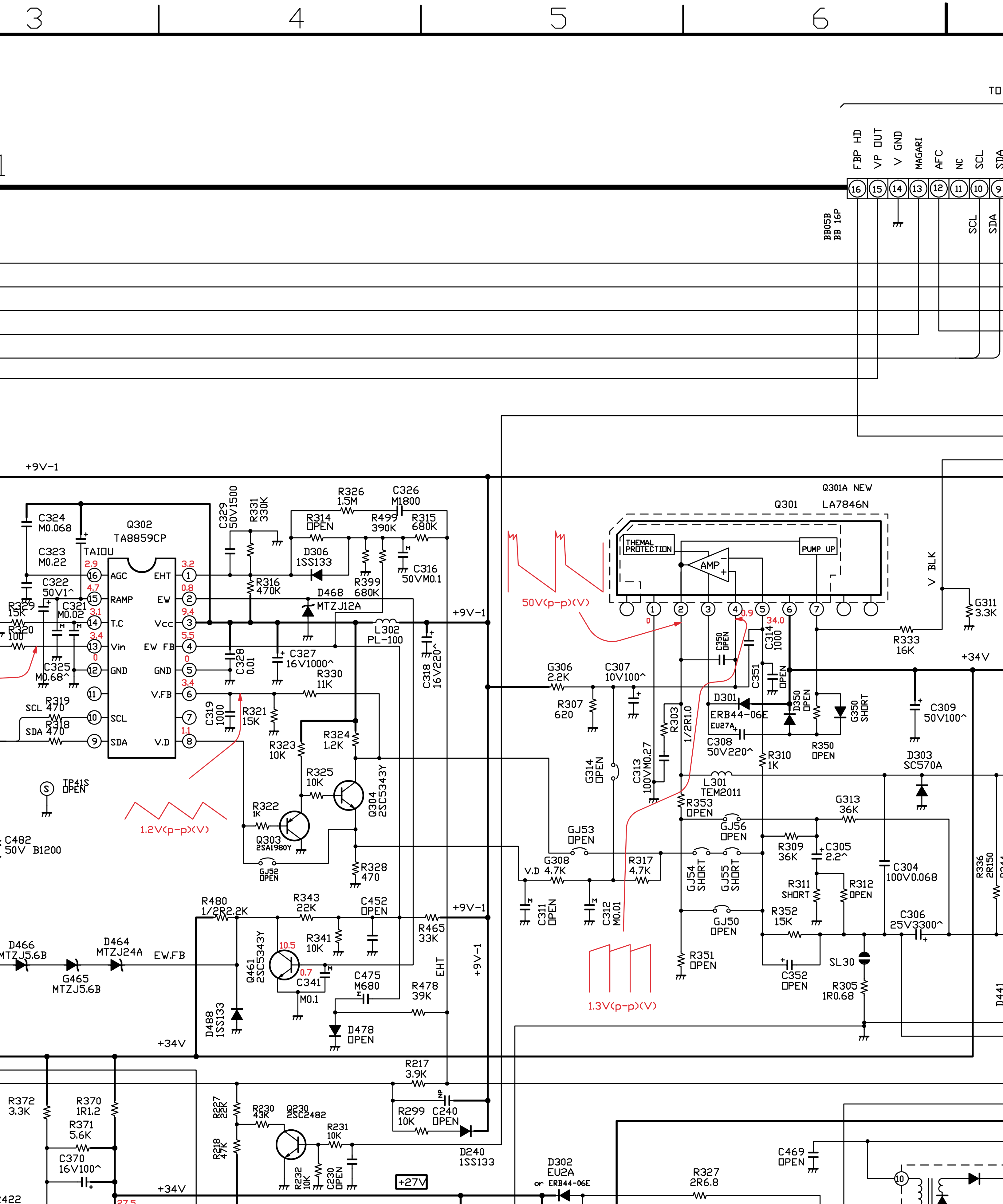
u905 DEF BOARD PD0361

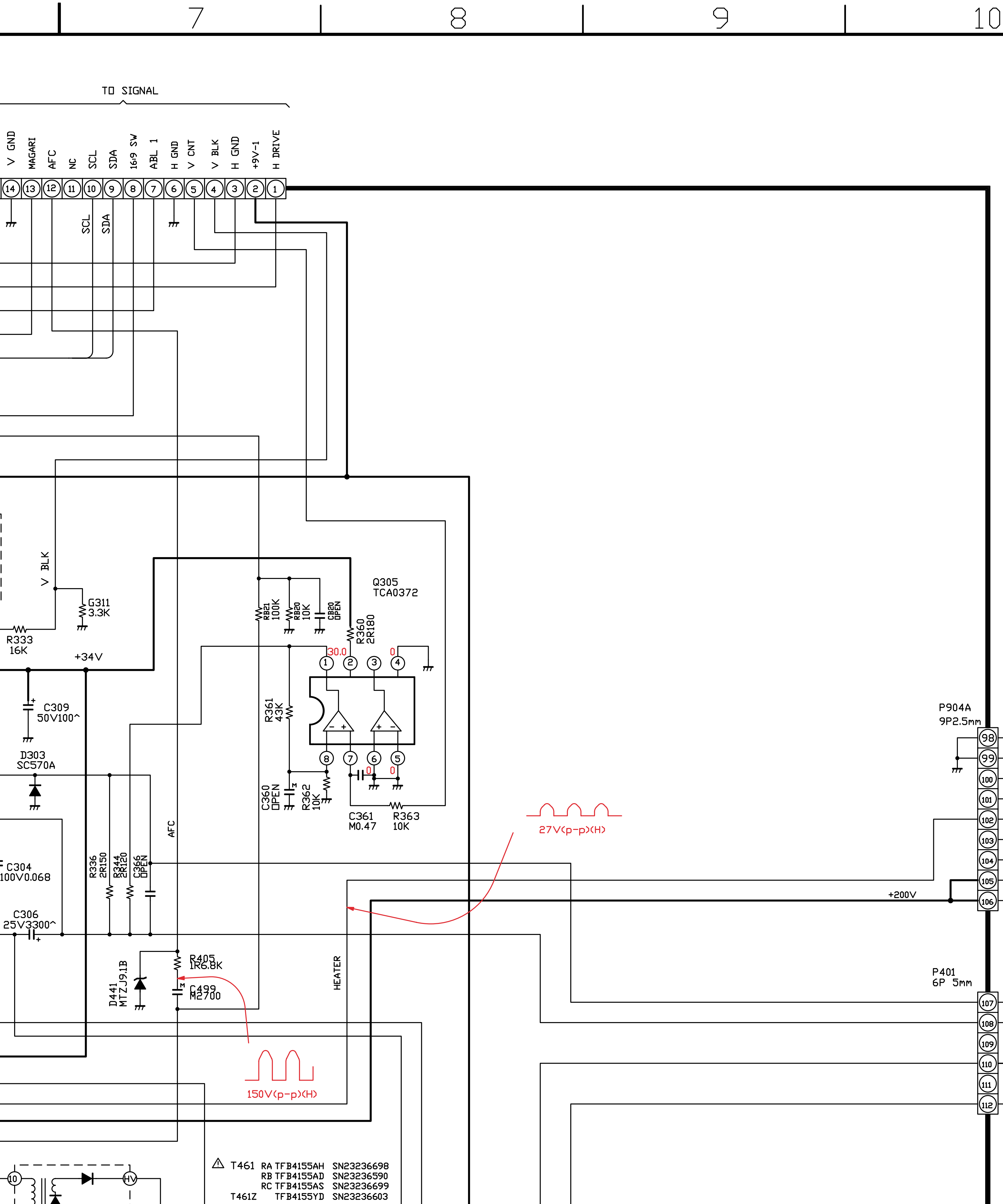

TO SIGNAL
FBP HD
VP OUT
V GND
NAGARI
AFC
NC
SCL
SDA
16:9 SV
ABL 1
H GND
V CNT
V BLK
H GND
+9V-1
H DRIVE
Q302 TA8859CP
Q301 LA7846N
Q301A NEW
THERMAL PROTECTION
AMP
PUMP UP
Q305 TCA0372
Q470 2SC5343Y
Q402 2SC2235OFA-1
Q460 2SA1788E
Q462 2SC5343Y
Q370 2SA1980Y
Q404 2SC5570(FA)
T401 TLN1080AH H.DRIVE TRANS
T400 TLN2168AH
T461
L462 TDY-629SA SN23231305
Q390 OPEN
P904A 9P2.5mm
TO CRT B M904(P904B)
P401 6P 5mm
V.DY
H.DY.
P812B 3P
FROM POWER M812(P812A)
+125V
GND
P813B 3P-2.5mm
FROM POWER M813(P813A)
+27V
GATE
DRIVE Vcc
EH (TO CPT)
EF (TO CRT BOARD)
ES (TO CRT BOARD)
FOCUS
SCREEN
HEATER
AFC
+200V
+34V
+9V-1
+27V
-27V
125V
3.5V(p-p)(V)
50V(p-p)(V)
12V(p-p)(V)
13V(p-p)(V)
27V(p-p)(H)
150V(p-p)(H)
1050V(p-p)(H)
270V(p-p)(H)

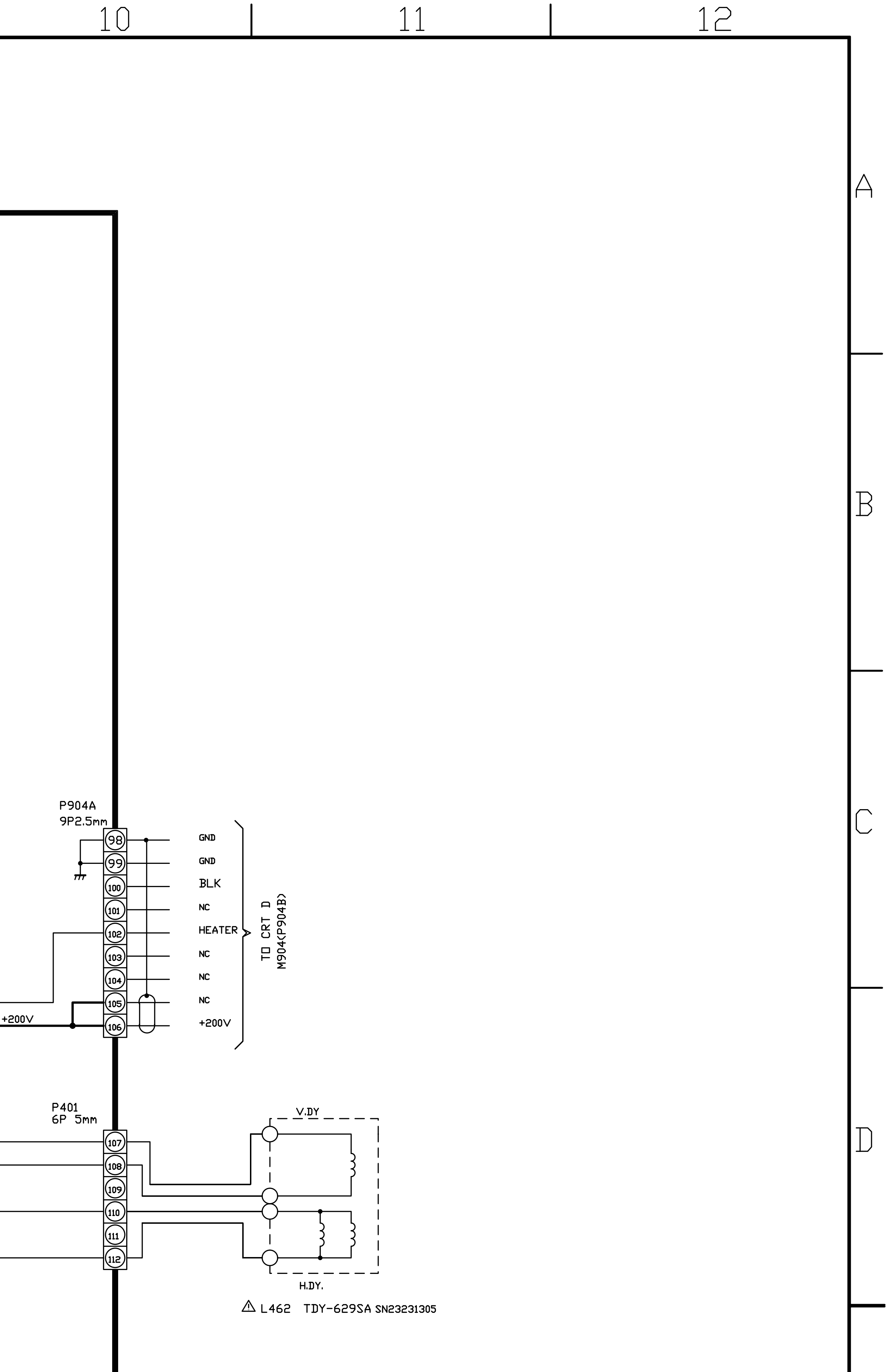
DEF
29AZ8UE
29AZ8UA

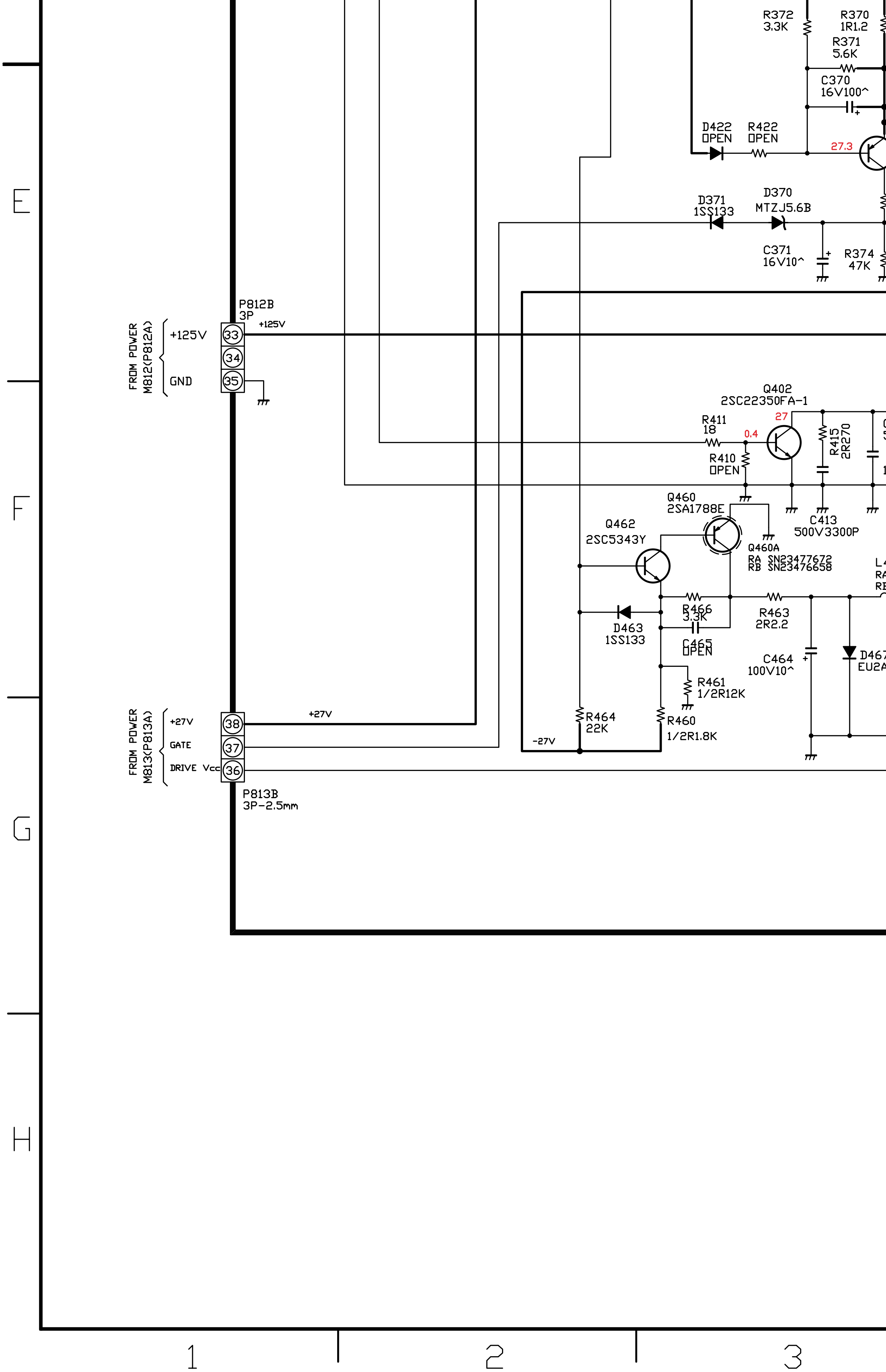
u905 DEF BOARD PD0361

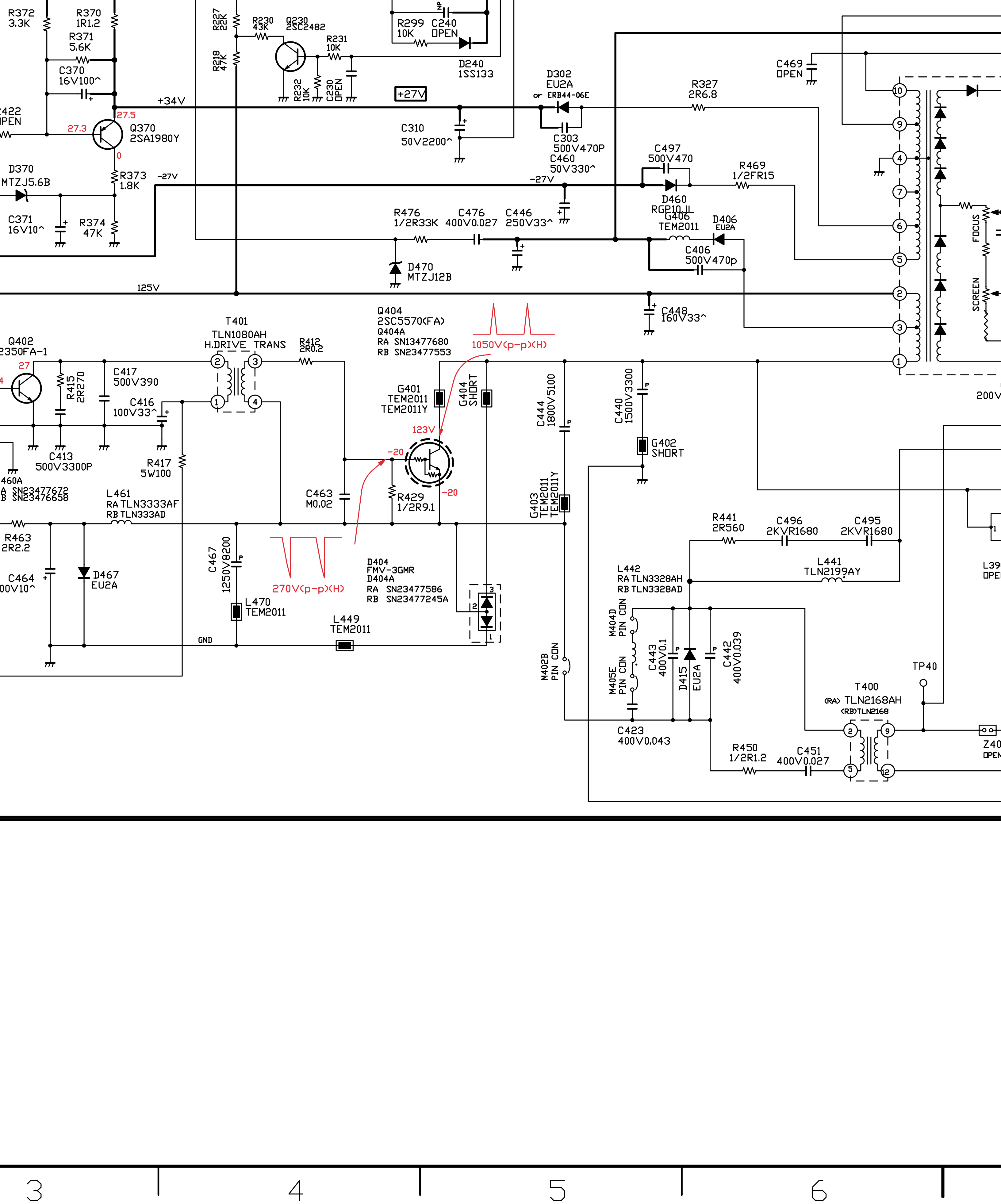

1
2
3
A
B
C
D
+9V-1
C324
M0.068
C323
M0.22
TAIDU
C322
50V1^
R329
15K
C321
M0.02
R320
100
C325
M0.68^
2.9
4.7
3.1
3.4
0
16
15
14
13
12
11
10
9
R319
SCL 470
R318
SDA 470
3.5V(p-p)(V)
TP41S
OPEN
+9V-1
G498
SHORT
R487
150K
R483
22K
R481
3.9K
C481
M0.33
Q470
2SC5343Y
7.2
2.4
1.8
C482
50V B1200
R488
150K
R474
47K
R482
8.2K
C477
M0.022
C478
M0.056
R473
10K
D466
MTZJ5.6B
G465
MTZJ5.6B
D4
MTZ
R372
3.3K
R370
1R1.2
R371
5.6K
C370
16V100^
D422
R422

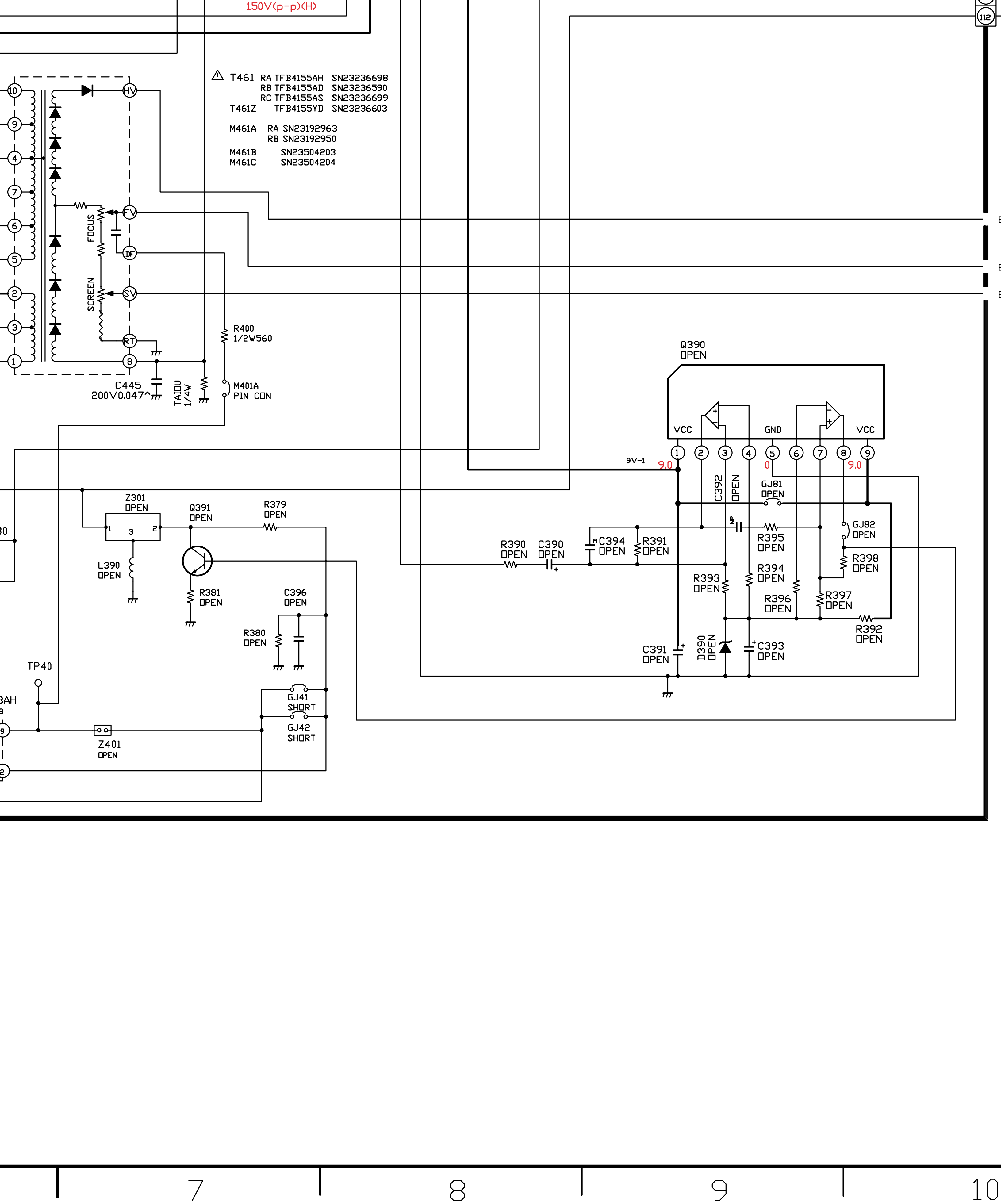

3
4
5
6
TO
FBP HD
VP OUT
V GND
MAGARI
AFC
NC
SCL
SDA
16
15
14
13
12
11
10
9
BB05B
BB 16P
+9V-1
C324
M0.068
C323
M0.22
C322
50V1^
R329
15K
R320
100
C321
M0.02
C325
M0.68^
R319
SCL 470
R318
SDA 470
TAIOU
Q302
TA8859CP
AGC
RAMP
T.C
Vin
GND
SCL
SDA
EHT
EW
Vcc
EW FB
GND
V.FB
V.D
2.9
4.7
3.1
3.4
0
3.2
0.8
9.4
5.5
0
3.4
1.1
C329
50V1500
R331
330K
R326
1.5M
C326
M1800
R314
OPEN
R499
390K
R315
680K
D306
1SS133
R316
470K
R399
680K
C316
50VM0.1
D468
MTZJ12A
L302
PL-100
+9V-1
C318
16V220^
C328
0.01
C327
16V1000^
R330
11K
C319
1000
R321
15K
R323
10K
R324
1.2K
R325
10K
Q304
2SC5343Y
R322
1K
Q303
2SA1980Y
GJ52
OPEN
R328
470
TP41S
OPEN
1.2V(p-p)(V)
C482
50V B1200
50V(p-p)(V)
Q301A NEW
Q301
LA7846N
THEMAL PROTECTION
AMP
PUMP UP
0
0.9
34.0
V BLK
G311
3.3K
R333
16K
+34V
G306
2.2K
C307
10V100^
R307
620
C350
OPEN
C314
1000
C351
G351
OPEN
D301
ERB44-06E
EU27A
C308
50V220^
R303
1/2R1.0
D350
OPEN
R350
OPEN
G350
SHORT
C309
50V100^
R310
1K
D303
SC570A
G314
OPEN
C313
100VM0.27
L301
TEM2011
R353
OPEN
GJ56
OPEN
G313
36K
GJ53
OPEN
G308
V.D 4.7K
R317
4.7K
GJ54
SHORT
GJ55
SHORT
R309
36K
C305
2.2^
C304
100V0.068
R311
SHORT
R312
OPEN
R336
2R150
C311
OPEN
C312
M0.01
GJ50
OPEN
R352
15K
C306
25V3300^
R351
OPEN
C352
OPEN
SL30
R305
1R0.68
1.3V(p-p)(V)
D441
R480
1/2R2.2K
R343
22K
C452
OPEN
+9V-1
R465
33K
D466
MTZJ5.6B
D464
MTZJ24A
EW.FB
G465
MTZJ5.6B
Q461
2SC5343Y
10.5
0.7
R341
10K
C341
M0.1
C475
M680
R478
39K
EHT
+9V-1
D488
1SS133
D478
OPEN
+34V
R217
3.9K
R372
3.3K
R370
1R1.2
R371
5.6K
C370
16V100^
R227
22K
R230
43K
Q230
2SC2482
R231
10K
R299
10K
C240
OPEN
D240
1SS133
R218
47K
R232
10K
C230
OPEN
+27V
+34V
27.5
R422
D302
EU2A
or ERB44-06E
R327
2R6.8
C469
OPEN
10


7
8
9
10
TO SIGNAL
V GND
MAGARI
AFC
NC
SCL
SDA
16:9 SW
ABL 1
H GND
V CNT
V BLK
H GND
+9V-1
H DRIVE
14
13
12
11
10
9
8
7
6
5
4
3
2
1
SCL
SDA
V BLK
G311
3.3K
R333
16K
+34V
C309
50V100^
D303
SC570A
C304
100V0.068
C306
25V3300^
R336
2R150
R344
2R120
C366
OPEN
AFC
R405
1R6.8K
C499
M2700
D441
MTZJ9.1B
Q305
TCA0372
RB21
100K
RB20
10K
CB20
OPEN
R360
2R180
30.0
0
R361
43K
C360
OPEN
R362
10K
C361
M0.47
R363
10K
27V(p-p)(H)
150V(p-p)(H)
HEATER
+200V
P904A
9P2.5mm
98
99
100
101
102
103
104
105
106
P401
6P 5mm
107
108
109
110
111
112
HV
⚠ T461 RA TFB4155AH SN23236698
RB TFB4155AD SN23236590
RC TFB4155AS SN23236699
T461Z TFB4155YD SN23236603


10
11
12
A
B
C
D
P904A
9P2.5mm
98
99
100
101
102
103
104
105
106
GND
GND
BLK
NC
HEATER
NC
NC
NC
+200V
+200V
TO CRT D
M904(P904B)
P401
6P 5mm
107
108
109
110
111
112
V.DY
H.DY.
⚠ L462 TDY-629SA SN23231305

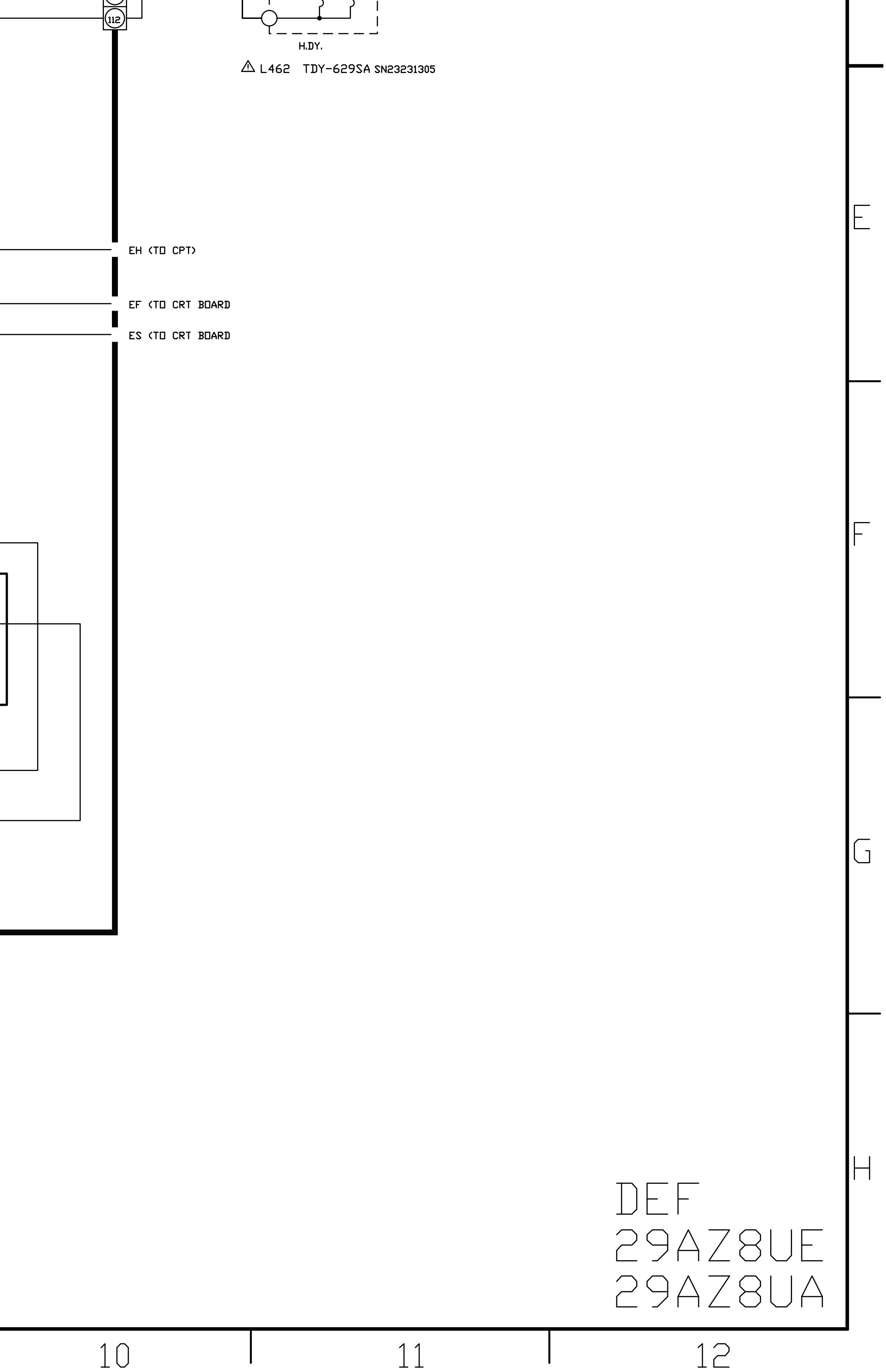

R372
3.3K
R370
1R1.2
R371
5.6K
C370
16V100^
D422
OPEN
R422
OPEN
27.3
D371
1SS133
D370
MTZJ5.6B
C371
16V10^
R374
47K
E
P812B
3P
+125V
FROM POWER
M812(P812A)
+125V
33
34
GND
35
Q402
2SC22350FA-1
27
R411
18
0.4
R410
OPEN
R415
2R270
C413
500V3300P
F
Q460
2SA1788E
Q462
2SC5343Y
Q460A
RA SN23477672
RB SN23476658
R466
3.3K
R463
2R2.2
D463
1SS133
C465
OPEN
C464
100V10^
D467
EU2A
R461
1/2R12K
R464
22K
R460
1/2R1.8K
-27V
+27V
FROM POWER
M813(P813A)
+27V
38
GATE
37
DRIVE Vcc
36
P813B
3P-2.5mm
G
H
1
2
3


R372
3.3K
R370
1R1.2
R371
5.6K
C370
16V100^
422
PEN
27.5
27.3
Q370
2SA1980Y
+34V
0
D370
MTZJ5.6B
R373
1.8K
-27V
C371
16V10^
R374
47K
R227
22K
R218
47K
R230
43K
Q230
2SC2482
R231
10K
R232
10K
C230
OPEN
R299
10K
C240
OPEN
NP
D240
1SS133
+27V
C310
50V2200^
D302
EU2A
or ERB44-06E
C303
500V470P
C460
50V330^
C469
OPEN
R327
2R6.8
C497
500V470
-27V
D460
RGP10JL
R469
1/2FR15
R476
1/2R33K
C476
400V0.027
C446
250V33^
G406
TEM2011
D406
EU2A
C406
500V470p
D470
MTZJ12B
125V
C448
160V33^
10
9
4
7
6
5
2
3
1
FOCUS
SCREEN
200V
Q402
2350FA-1
27
4
R415
2R270
C417
500V390
T401
TLN1080AH
H.DRIVE TRANS
R412
2R0.2
C416
100V33^
C413
500V3300P
R417
5W100
460A
A SN23477672
B SN23476658
L461
RA TLN3333AF
RB TLN333AD
R463
2R2.2
C464
00V10^
D467
EU2A
Q404
2SC5570(FA)
Q404A
RA SN13477680
RB SN23477553
1050V(p-p)(H)
G401
TEM2011
TEM2011Y
G404
SHORT
123V
-20
-20
R429
1/2R9.1
C463
M0.02
C467
1250V8200
L470
TEM2011
270V(p-p)(H)
D404
FMV-3GMR
D404A
RA SN23477586
RB SN23477245A
L449
TEM2011
GND
C444
1800V5100
C440
1500V3300
G402
SHORT
G403
TEM2011
TEM2011Y
R441
2R560
C496
2KVR1680
C495
2KVR1680
L442
RA TLN3328AH
RB TLN3328AD
L441
TLN2199AY
L39
OPE
M404D
PIN CON
M402B
PIN CON
M405E
PIN CON
C443
400V0.1
D415
EU2A
C442
400V0.039
C423
400V0.043
TP40
T400
(RA) TLN2168AH
(RB)TLN2168
R450
1/2R1.2
C451
400V0.027
Z40
OPEN
3
4
5
6


150V(p-p)(H)
112
10
9
4
7
6
5
2
3
1
HV
FV
DF
SV
RT
8
FOCUS
SCREEN
R400
1/2W560
C445
200V0.047
TAIDU
1/4W
M401A
PIN CON
Q390
OPEN
VCC
GND
VCC
1
2
3
4
5
6
7
8
9
9V-1
9.0
0
9.0
C392
OPEN
GJ81
OPEN
GJ82
OPEN
NP
R395
OPEN
R398
OPEN
R390
OPEN
C390
OPEN
C394
OPEN
R391
OPEN
R393
OPEN
R394
OPEN
R396
OPEN
R397
OPEN
R392
OPEN
C391
OPEN
D390
OPEN
C393
OPEN
Z301
OPEN
1
3
2
Q391
OPEN
R379
OPEN
L390
OPEN
R381
OPEN
C396
OPEN
R380
OPEN
TP40
GJ41
SHORT
GJ42
SHORT
Z401
OPEN
30
3AH
3
9
2
7
8
9
10

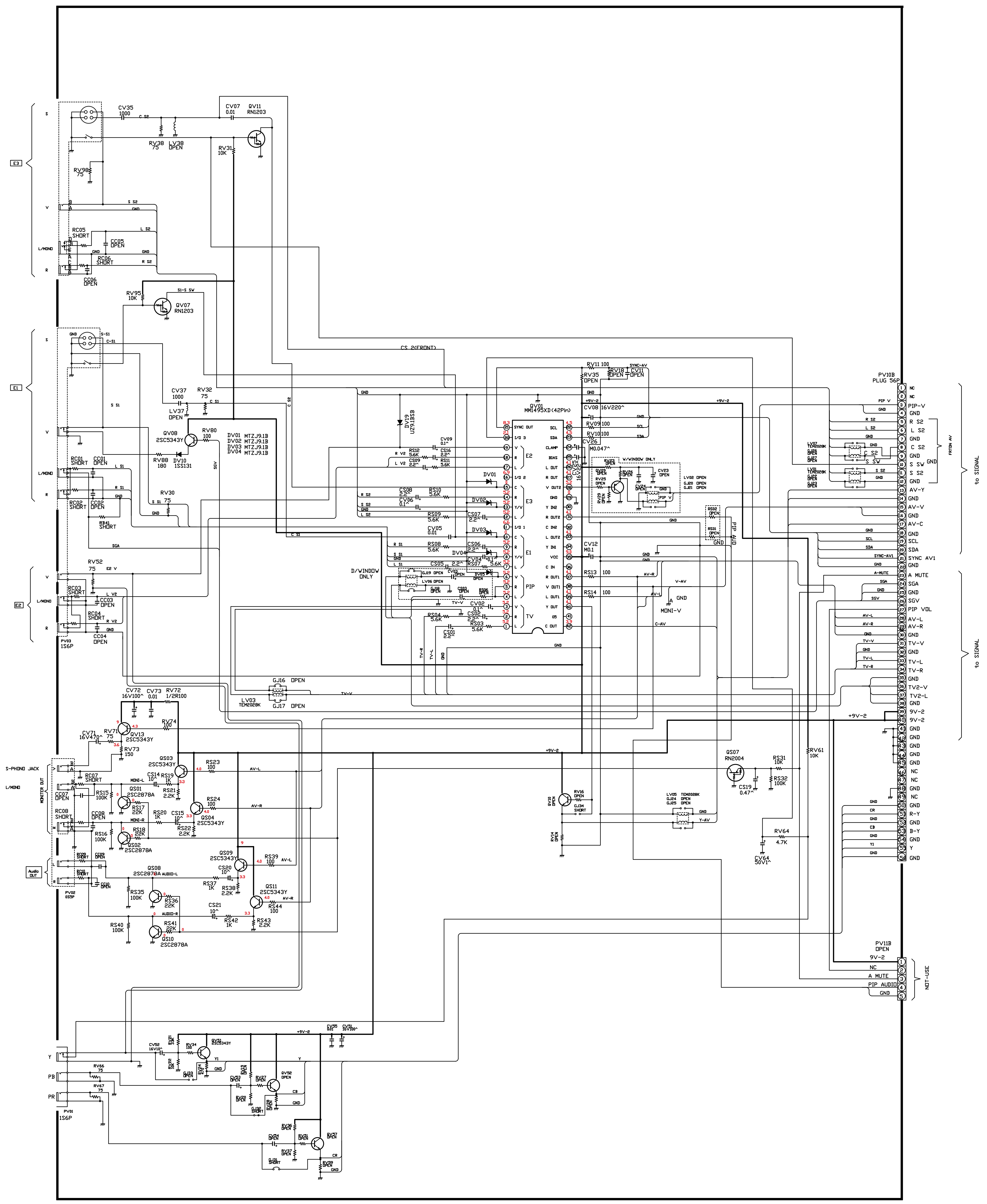
⚠ T461 RA TFB4155AH SN23236698
RB TFB4155AD SN23236590
RC TFB4155AS SN23236699
T461Z TFB4155YD SN23236603

M461A RA SN23192963
RB SN23192950
M461B SN23504203
M461C SN23504204


112
H.DY.
⚠ L462 TDY-629SA SN23231305
EH (TO CPT)
EF (TO CRT BOARD
ES (TO CRT BOARD
E
F
G
H
10
11
12

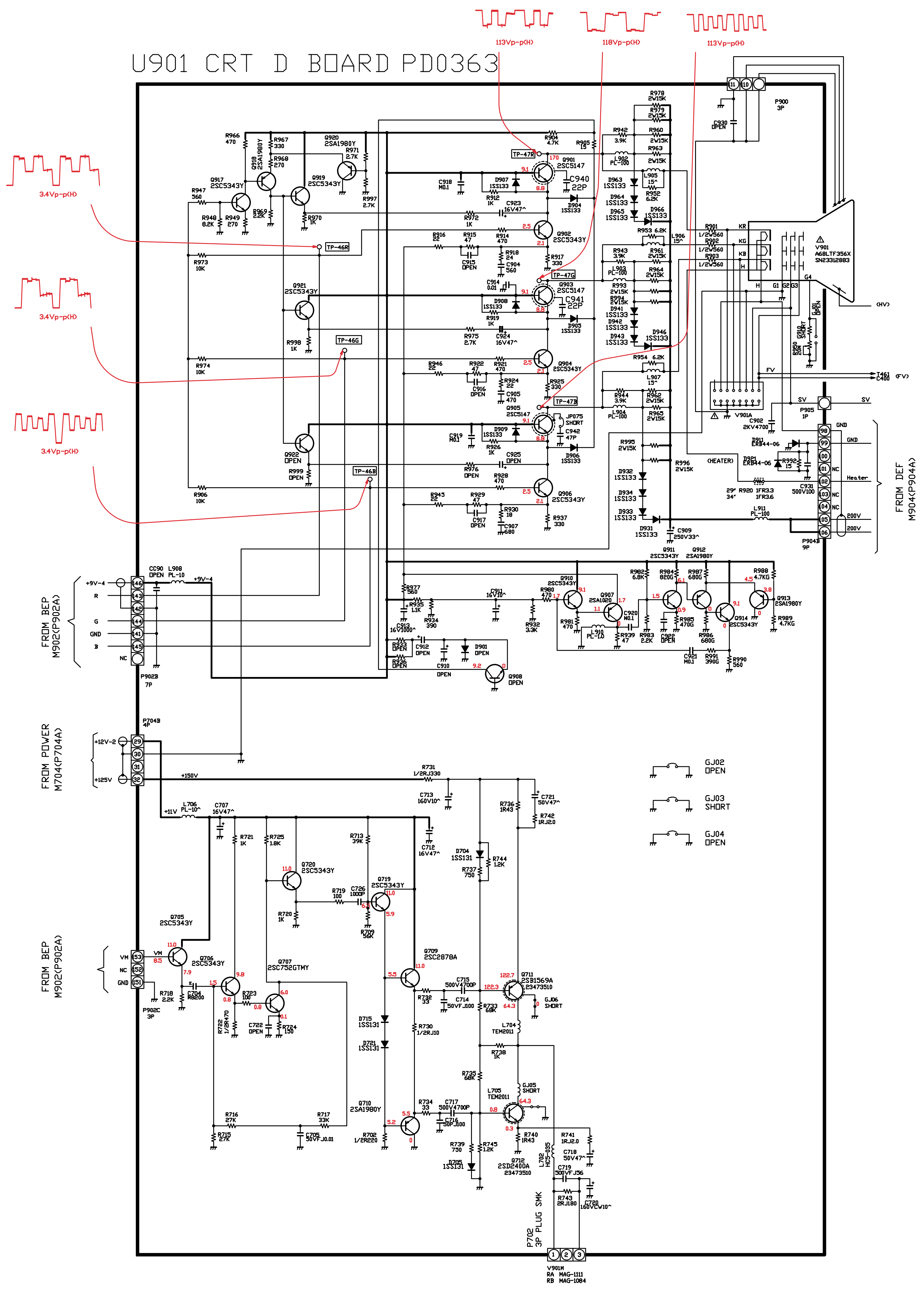
DEF
29AZ8UE
29AZ8UA

U101 BACK T BOARD PD0362



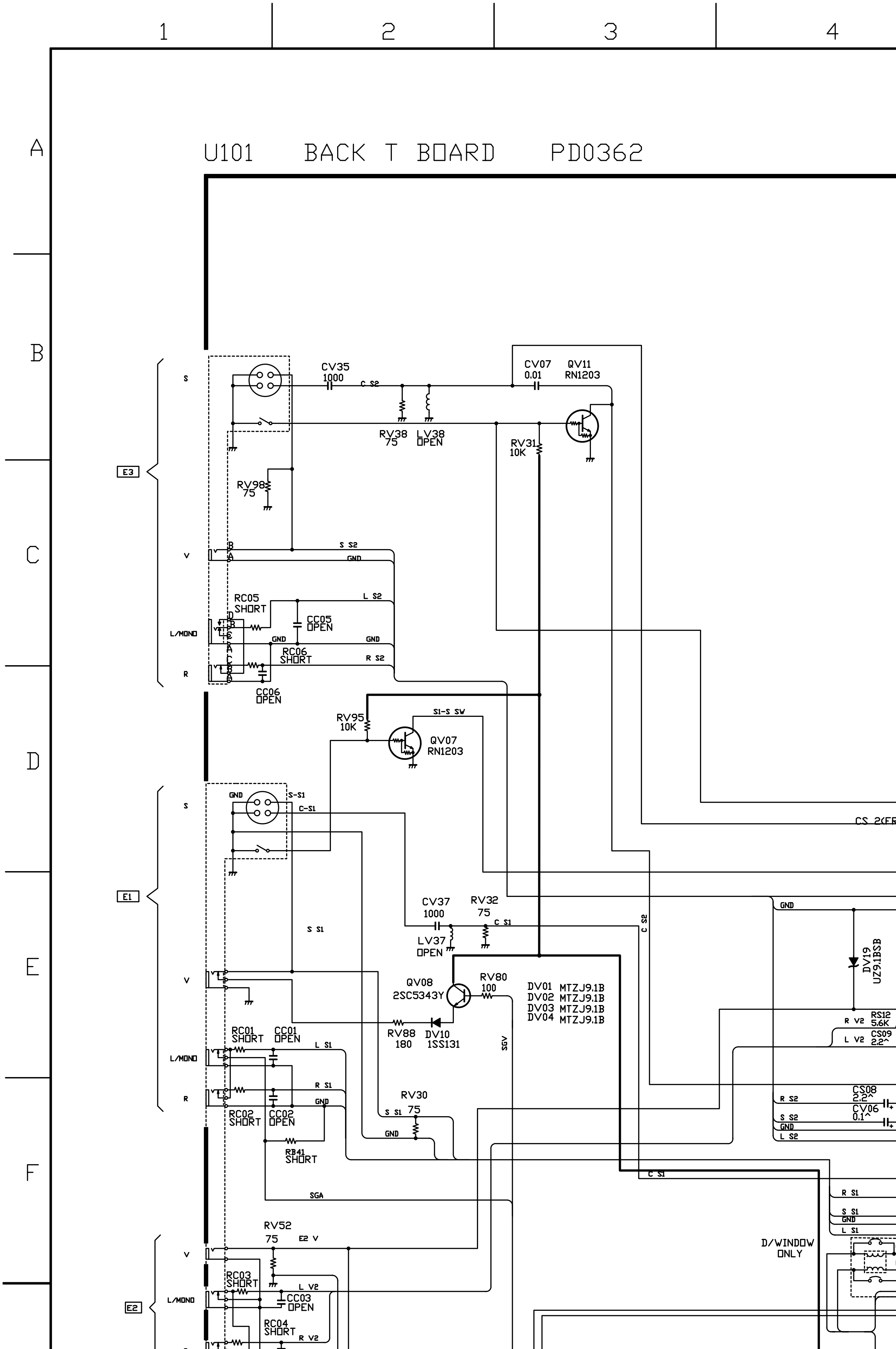
PV10B PLUG 56P
PV11B OPEN
QV01 MM1495XD(42Pin)
E1
E2
E3
E4
S-PHONO JACK
MONITOR OUT
AUDIO OUT
D/WINDOW ONLY
CS 2(FRONT)
to SIGNAL
to SIGNAL
FROM AV
PIP-IN
GND
+9V-2

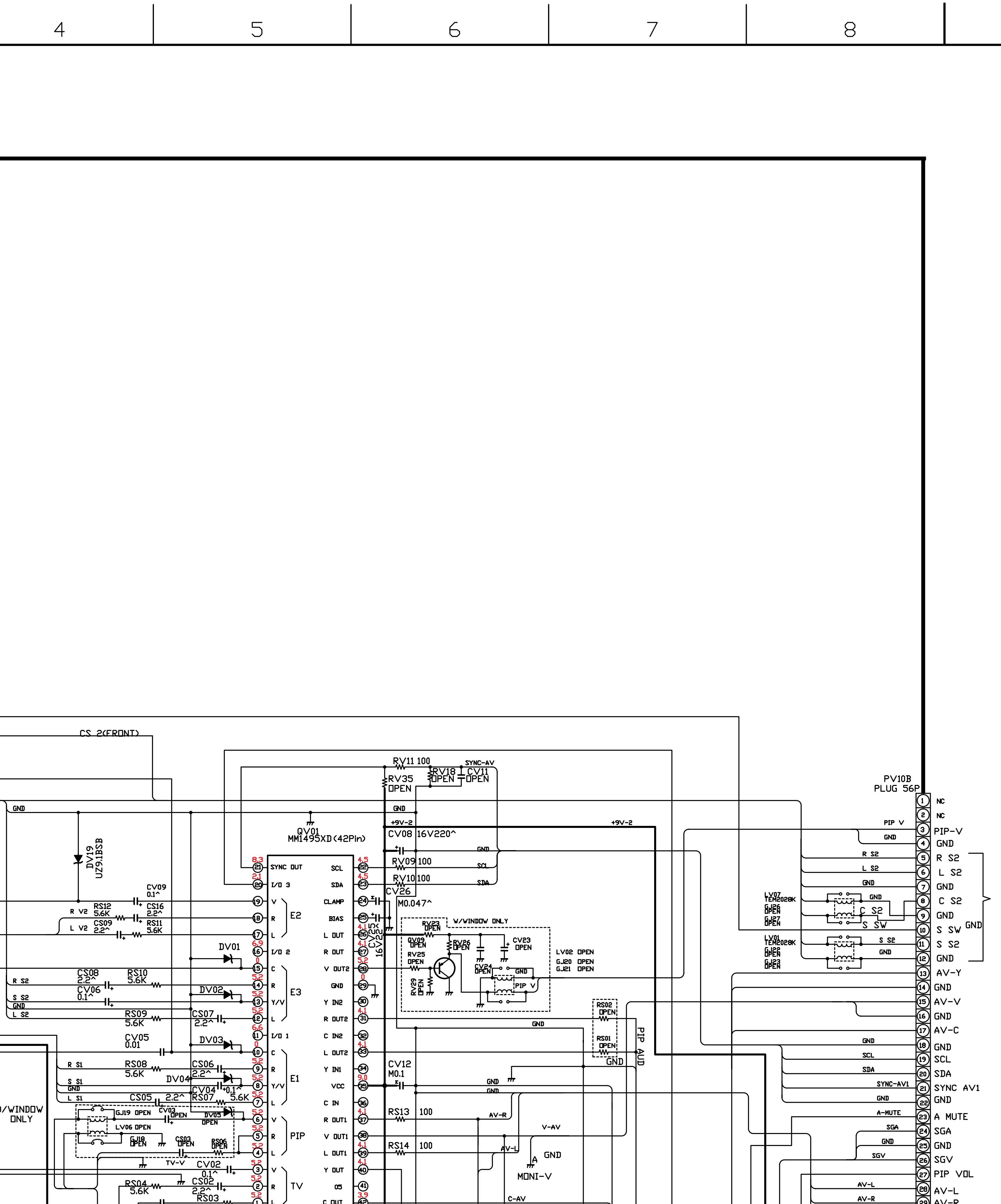
U901 CRT D BOARD PD0363

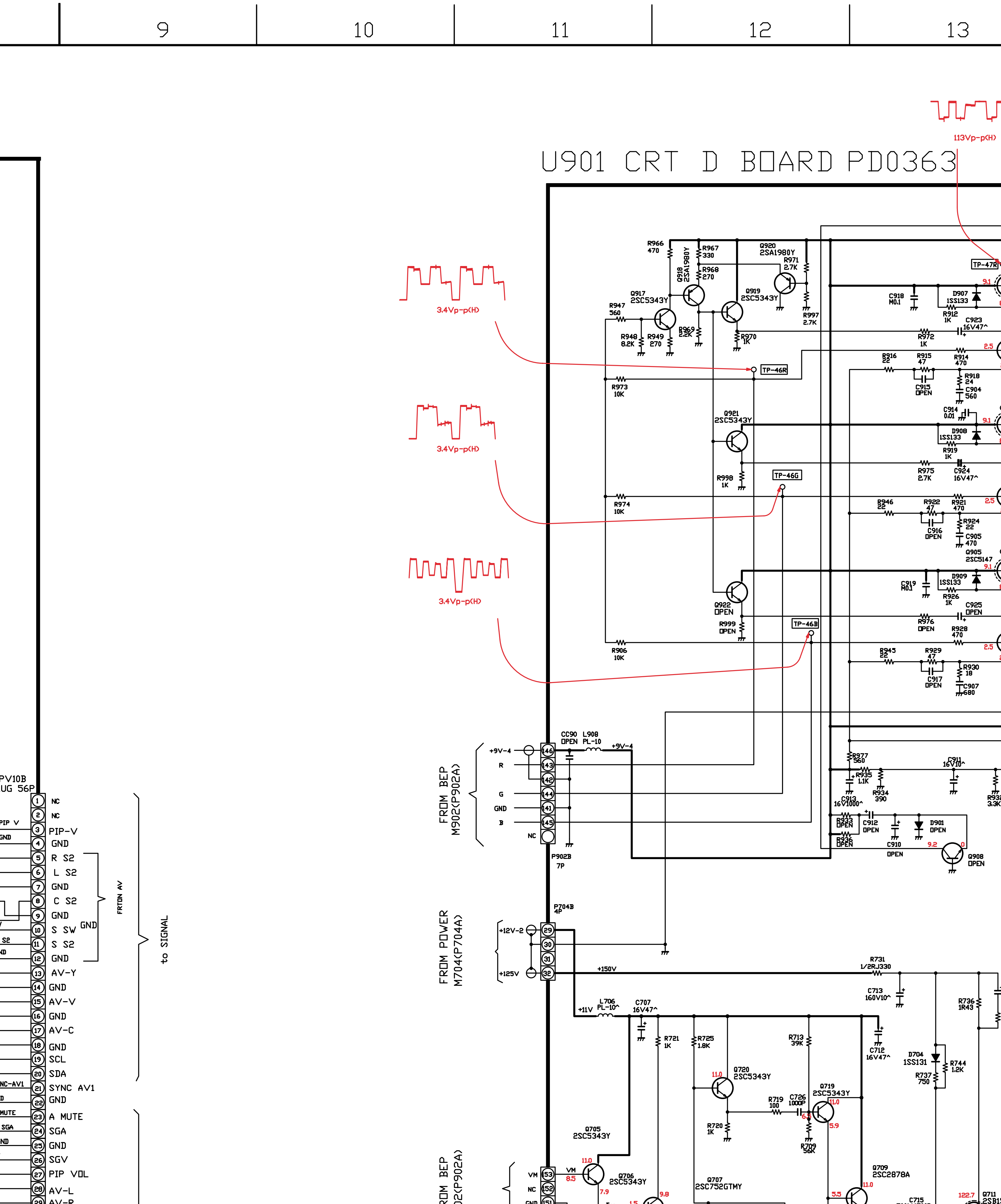


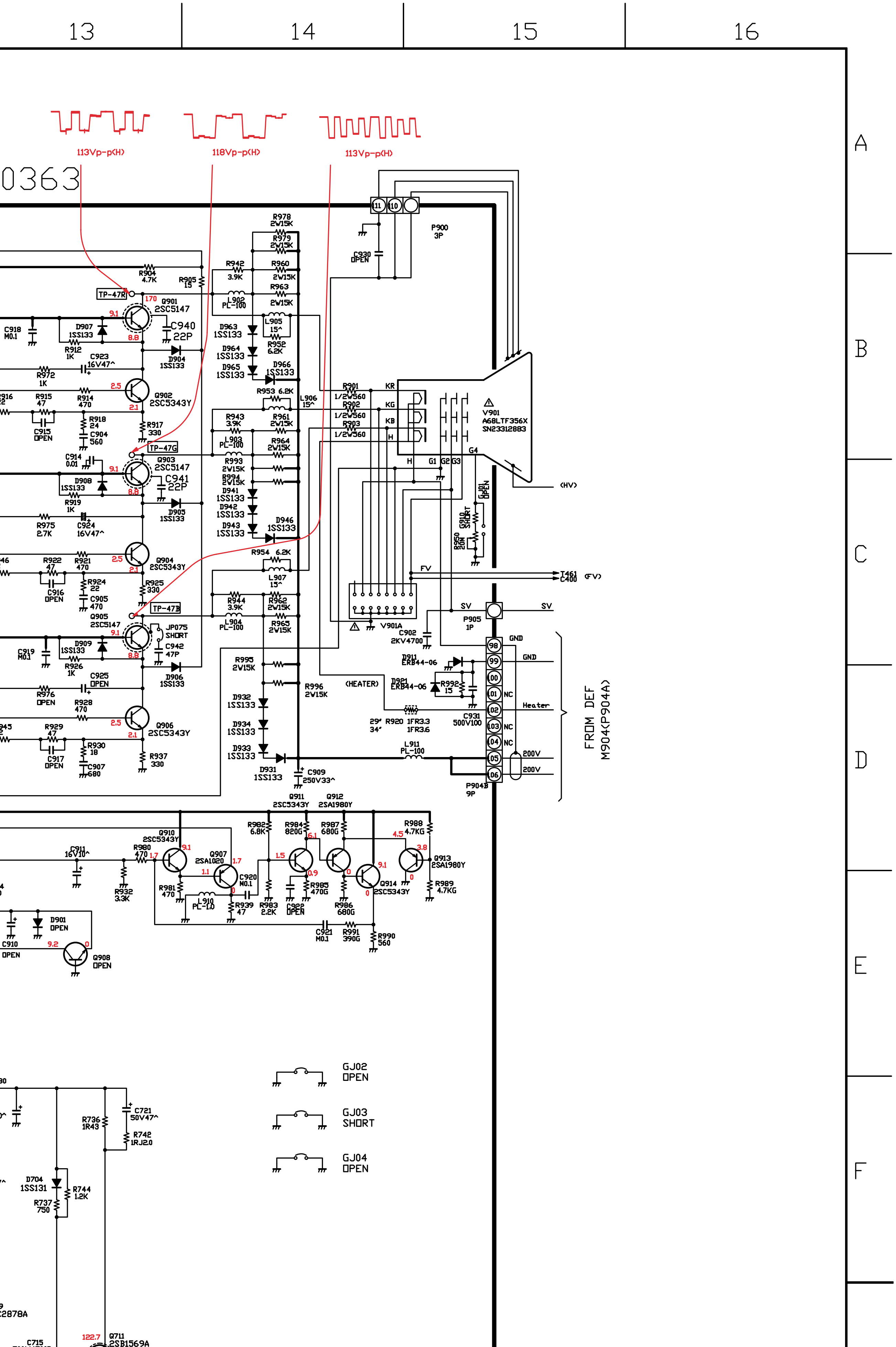
113Vp-p00
118Vp-p00
113Vp-p00
3.4Vp-p00
3.4Vp-p00
3.4Vp-p00
FROM BEP M902(P902A)
FROM POWER M704(P704A)
FROM BEP M902(P902A)
FROM DEF M904(P904A)
P900 3P
V901 A68LTF356X

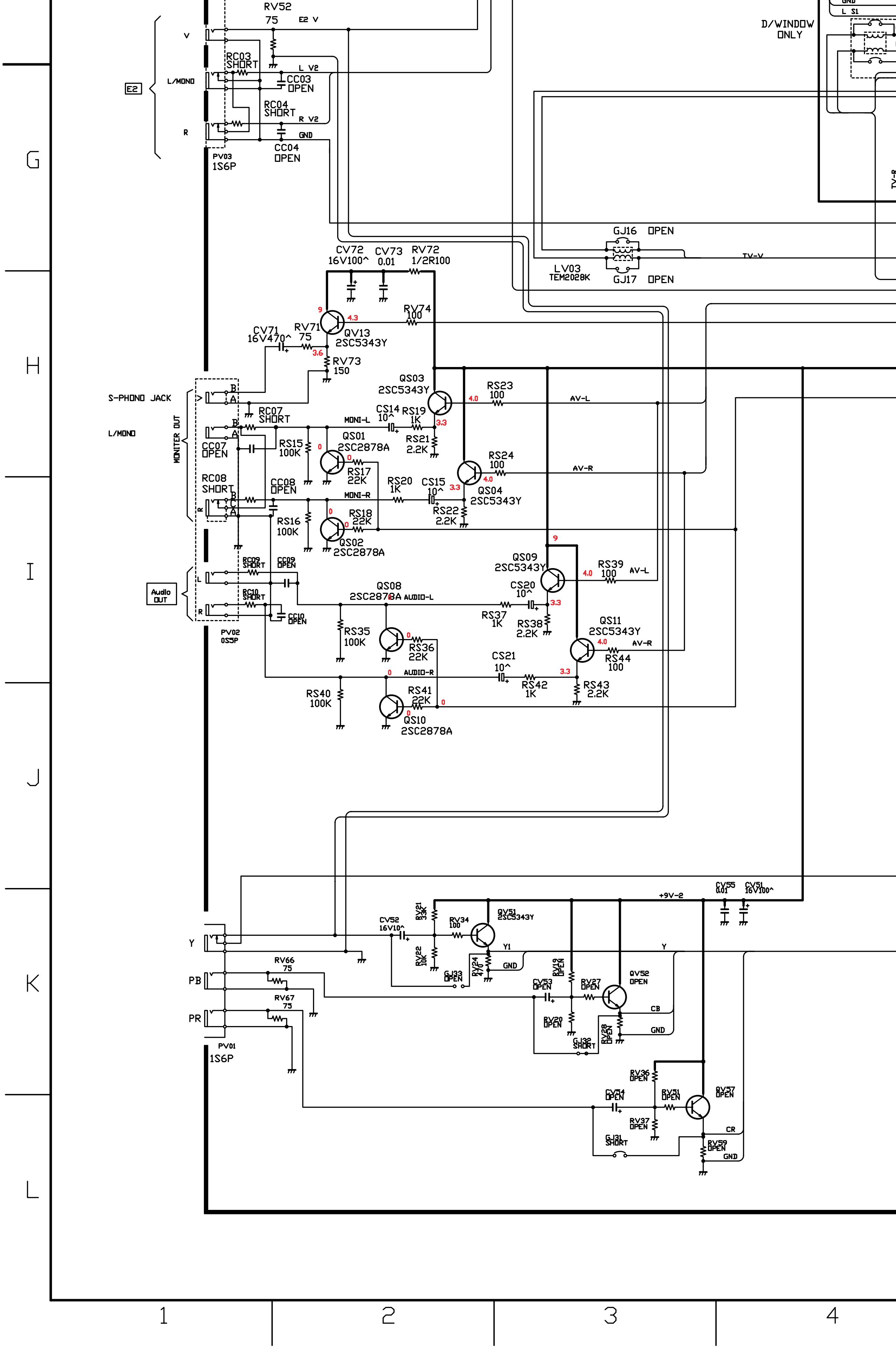
BACK/T,CRTD-VM
29AZ8UE
29AZ9UA

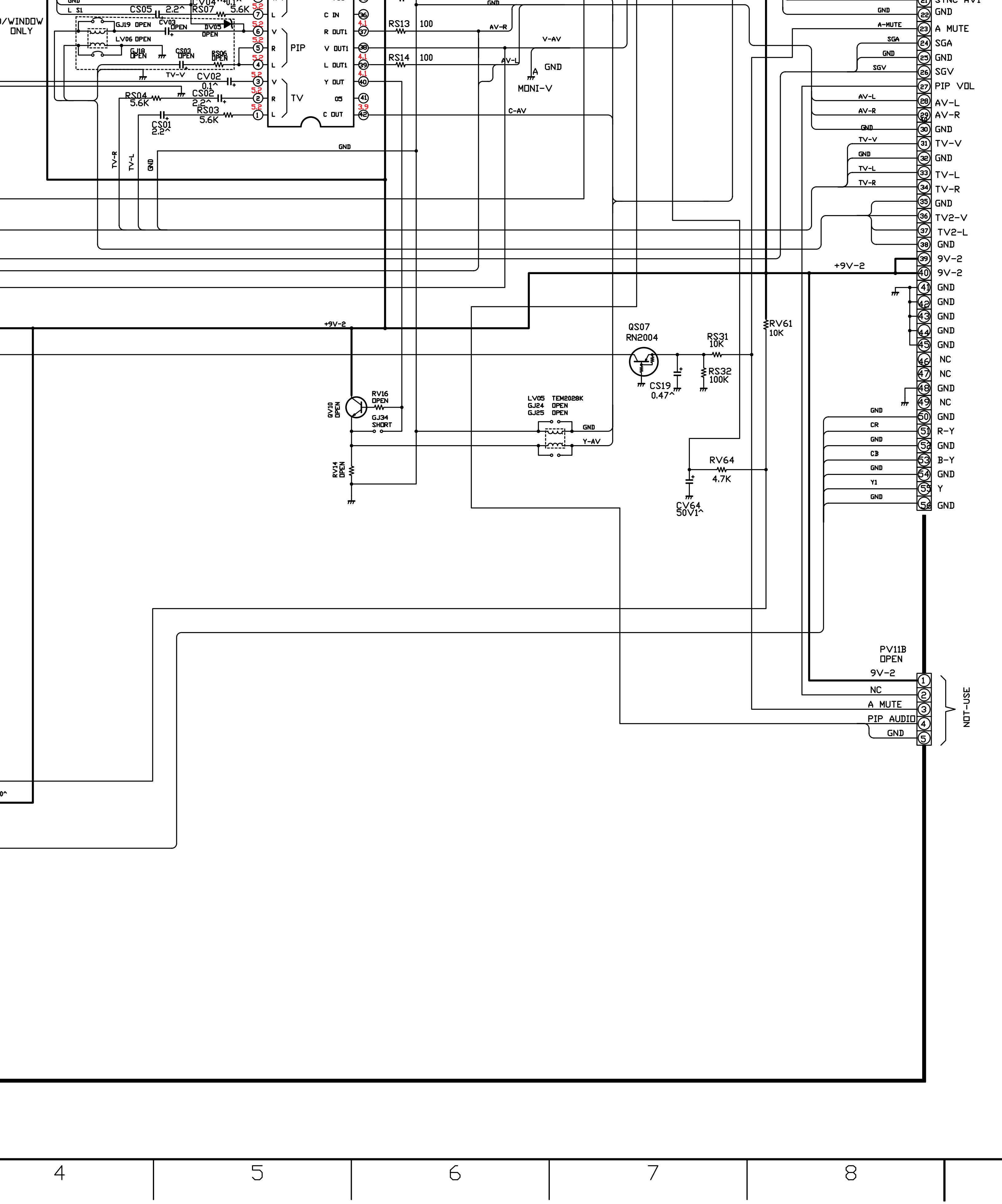

1
2
3
4
A
B
C
D
E
F
U101 BACK T BOARD PD0362
E3
S
V
L/MONO
R
CV35
1000
C S2
CV07
0.01
QV11
RN1203
RV38
75
LV38
OPEN
RV31
10K
RV98
75
B
A
S S2
GND
RC05
SHORT
L S2
CC05
OPEN
D
B
C
A
B
GND
GND
RC06
SHORT
R S2
CC06
OPEN
RV95
10K
S1-S SW
QV07
RN1203
E1
GND
S-S1
C-S1
S S1
CV37
1000
RV32
75
C S1
LV37
OPEN
C S2
GND
DV19
UZ9.1BSB
QV08
2SC5343Y
RV80
100
DV01 MTZJ9.1B
DV02 MTZJ9.1B
DV03 MTZJ9.1B
DV04 MTZJ9.1B
RV88
180
DV10
1SS131
SGV
R V2
RS12
5.6K
L V2
CS09
2.2^
RC01
SHORT
CC01
OPEN
L S1
R S1
GND
RV30
75
S S1
GND
R S2
CS08
2.2^
CV06
0.1^
S S2
GND
L S2
RC02
SHORT
CC02
OPEN
RB41
SHORT
C S1
SGA
R S1
S S1
GND
L S1
RV52
75
E2 V
D/WINDOW
ONLY
E2
RC03
SHORT
L V2
CC03
OPEN
RC04
SHORT
R V2
CS 2(FR


4
5
6
7
8
CS 2(FRONT)
GND
DV19
UZ9.1BSB
CV09
0.1^
R V2
RS12
5.6K
CS16
2.2^
L V2
CS09
2.2^
RS11
5.6K
DV01
R S2
CS08
2.2^
RS10
5.6K
S S2
CV06
0.1^
DV02
GND
L S2
RS09
5.6K
CS07
2.2^
CV05
0.01
DV03
R S1
RS08
5.6K
CS06
2.2^
S S1
DV04
CV04
0.1^
L S1
CS05
2.2^
RS07
5.6K
/WINDOW
ONLY
GJ19 OPEN
CV03
OPEN
DV05
OPEN
LV06 OPEN
GJ18
OPEN
CS03
OPEN
RS06
OPEN
TV-V
CV02
0.1^
RS04
5.6K
CS02
2.2^
RS03
QV01
MM1495XD(42Pin)
SYNC OUT
I/O 3
V
R
L
I/O 2
C
R
Y/V
L
I/O 1
C
R
Y/V
L
V
R
L
V
R
L
E2
E3
E1
PIP
TV
SCL
SDA
CLAMP
BIAS
L OUT
R OUT
V OUT2
GND
Y IN2
R OUT2
C IN2
L OUT2
Y IN1
VCC
C IN
R OUT1
V OUT1
L OUT1
Y OUT
05
C OUT
8.3
2.1
6.9
0
5.2
5.2
5.2
6.6
0
5.2
5.2
5.2
5.2
5.2
5.2
5.2
5.2
5.2
4.5
4.5
4.1
4.1
5.2
0
4.1
4.1
9.0
4.1
4.1
4.1
3.9
RV11 100
SYNC-AV
RV35
OPEN
RV18
OPEN
CV11
OPEN
GND
+9V-2
CV08 16V220^
RV09 100
RV10 100
SCL
SDA
CV26
M0.047^
CV25
16V22^
W/WINDOW ONLY
RV23
OPEN
QV09
OPEN
RV26
OPEN
CV23
OPEN
RV25
OPEN
CV24
OPEN
RV29
OPEN
PIP V
LV02 OPEN
GJ20 OPEN
GJ21 OPEN
RS02
OPEN
RS01
OPEN
GND
PIP AUD
CV12
M0.1
GND
RS13
100
AV-R
V-AV
RS14
100
AV-L
GND
MONI-V
C-AV
+9V-2
PV10B
PLUG 56P
PIP V
GND
R S2
L S2
GND
LV07
TEM2028K
GJ26
OPEN
GJ27
OPEN
GND
C S2
S SW
LV01
TEM2028K
GJ22
OPEN
GJ23
OPEN
S S2
GND
GND
SCL
SDA
SYNC-AV1
GND
A-MUTE
SGA
GND
SGV
AV-L
AV-R
1 NC
2 NC
3 PIP-V
4 GND
5 R S2
6 L S2
7 GND
8 C S2
9 GND
10 S SW
11 S S2
12 GND
13 AV-Y
14 GND
15 AV-V
16 GND
17 AV-C
18 GND
19 SCL
20 SDA
21 SYNC AV1
22 GND
23 A MUTE
24 SGA
25 GND
26 SGV
27 PIP VOL
28 AV-L
29 AV-R
GND

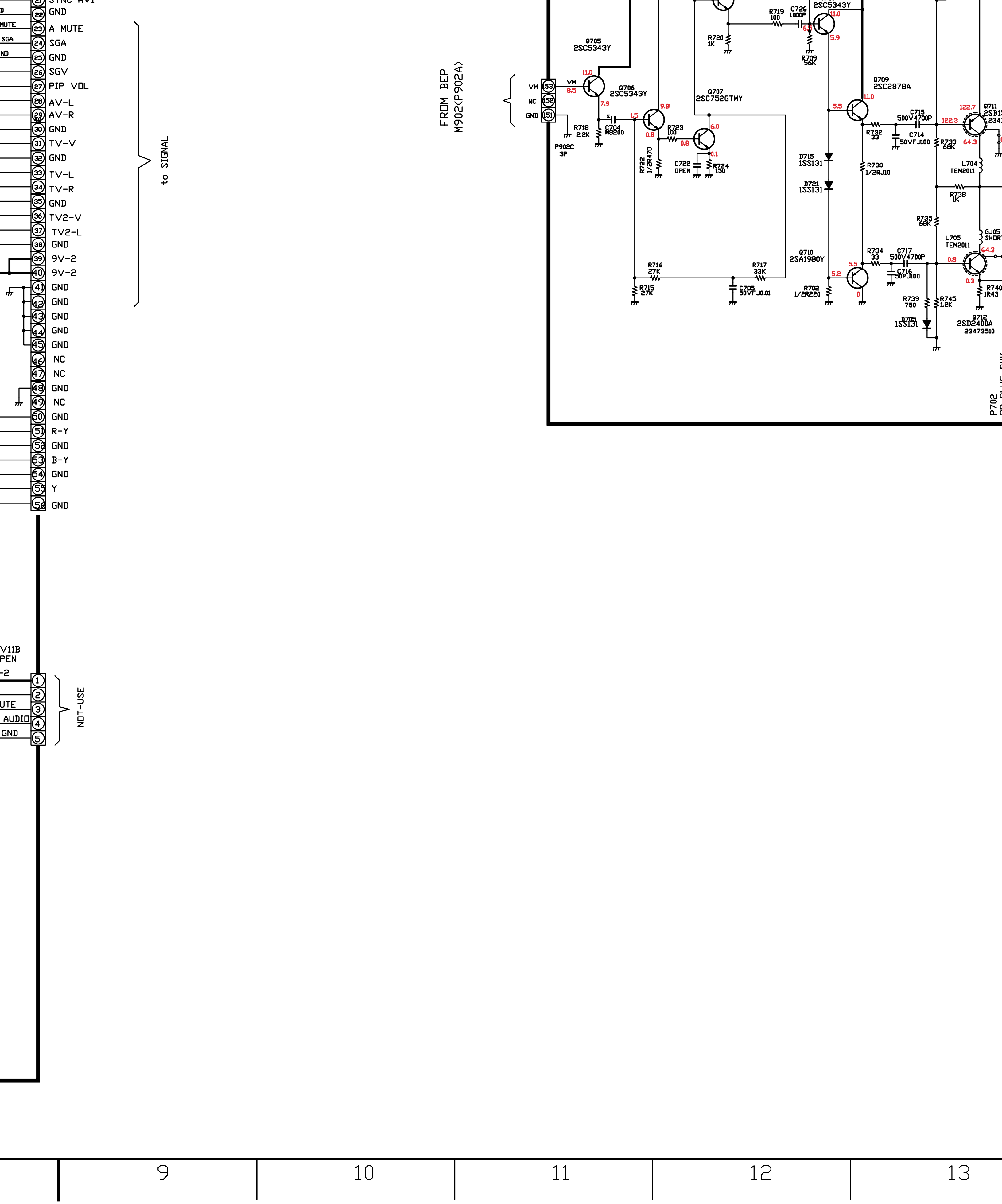

9
10
11
12
13
113Vp-p(H)
U901 CRT D BOARD PD0363
3.4Vp-p(H)
3.4Vp-p(H)
3.4Vp-p(H)
R966 470
R967 330
R968 270
Q918 2SA1980Y
Q920 2SA1980Y
R971 2.7K
Q917 2SC5343Y
Q919 2SC5343Y
R947 560
R948 8.2K
R949 270
R969 2.2K
R970 1K
R997 2.7K
TP-47R
C918 M0.1
D907 1SS133
R912 1K
C923 16V47^
R972 1K
TP-46R
R973 10K
R916 22
R915 47
R914 470
C915 OPEN
R918 24
C904 560
C914 0.01
Q921 2SC5343Y
D908 1SS133
R919 1K
R975 2.7K
C924 16V47^
R998 1K
TP-46G
R974 10K
R946 22
R922 47
R921 470
C916 OPEN
R924 22
C905 470
Q905 2SC5147
C919 M0.1
D909 1SS133
R926 1K
C925 OPEN
Q922 OPEN
R976 OPEN
R999 OPEN
TP-46B
R928 470
R906 10K
R945 22
R929 47
C917 OPEN
R930 18
C907 680
9.1
2.5
CC90 OPEN
L908 PL-10
+9V-4
+9V-4
R
G
GND
B
NC
146
143
142
144
141
145
P902B 7P
FROM BEP M902(P902A)
R977 560
C911 16V10^
R935 1.1K
R934 390
C913 16V1000^
R933 OPEN
C912 OPEN
D901 OPEN
R936 OPEN
C910 OPEN
Q908 OPEN
9.2
0
R932 3.3K
FROM POWER M704(P704A)
P704B 4P
+12V-2
+125V
29
30
31
32
+150V
R731 1/2RJ330
C713 160V10^
R736 1R43
+11V
L706 PL-10^
C707 16V47^
R721 1K
R725 1.8K
R713 39K
C712 16V47^
D704 1SS131
R744 1.2K
R737 750
Q720 2SC5343Y
11.0
Q719 2SC5343Y
R719 100
C726 1000P
6.5
5.9
R720 1K
R709 56K
Q705 2SC5343Y
Q706 2SC5343Y
Q707 2SC752GTMY
Q709 2SC2878A
11.0
8.5
7.9
9.8
1.5
5.5
122.7
C715
Q711 2SB1
VM
NC
GND
153
152
151
FROM BEP M902(P902A)
PV10B
UG 56P
PIP V
GND
S2
ND
NC-AV1
D
MUTE
SGA
ND
1 NC
2 NC
3 PIP-V
4 GND
5 R S2
6 L S2
7 GND
8 C S2
9 GND
10 S SW
11 S S2
12 GND
13 AV-Y
14 GND
15 AV-V
16 GND
17 AV-C
18 GND
19 SCL
20 SDA
21 SYNC AV1
22 GND
23 A MUTE
24 SGA
25 GND
26 SGV
27 PIP VOL
28 AV-L
29 AV-R
GND
FRTON AV
to SIGNAL


13
14
15
16
A
B
C
D
E
F
113Vp-p(H)
118Vp-p(H)
113Vp-p(H)
0363
P900
3P
C930
OPEN
R978
2W15K
R979
2W15K
R942
3.9K
R960
2W15K
R963
2W15K
R904
4.7K
R905
15
TP-47R
170
Q901
2SC5147
9.1
8.8
C940
22P
C918
M0.1
D907
1SS133
R912
1K
D904
1SS133
C923
16V47^
R972
1K
L902
PL-100
L905
15^
D963
1SS133
D964
1SS133
D965
1SS133
R952
6.2K
D966
1SS133
R953 6.2K
L906
15^
Q902
2SC5343Y
2.5
2.1
R915
47
R914
470
R918
24
R917
330
C915
OPEN
C904
560
TP-47G
C914
0.01
Q903
2SC5147
C941
22P
D908
1SS133
R919
1K
D905
1SS133
R975
2.7K
C924
16V47^
R943
3.9K
R961
2W15K
L903
PL-100
R964
2W15K
R993
2W15K
R994
2W15K
D941
1SS133
D942
1SS133
D943
1SS133
D946
1SS133
R954 6.2K
L907
15^
R922
47
R921
470
Q904
2SC5343Y
C916
OPEN
R924
22
R925
330
C905
470
Q905
2SC5147
TP-47B
JP075
SHORT
C942
47P
C919
M0.1
D909
1SS133
R926
1K
D906
1SS133
C925
OPEN
R976
OPEN
R928
470
Q906
2SC5343Y
R929
47
C917
OPEN
R930
18
C907
680
R937
330
R944
3.9K
R962
2W15K
L904
PL-100
R965
2W15K
R995
2W15K
R996
2W15K
D932
1SS133
D934
1SS133
D933
1SS133
D931
1SS133
C909
250V33^
R901
1/2W560
R902
1/2W560
R903
1/2W560
KR
KG
KB
H
V901
A68LTF356X
SN23312883
G4
H
G1
G2
G3
(HV)
GJ01
OPEN
G910
SHORT
R950
20M
FV
T461
C400
(FV)
SV
SV
P905
1P
V901A
C902
2KV4700
D911
ERB44-06
D921
ERB44-06
R992
15
(HEATER)
R920
1FR3.3
1FR3.6
29"
34"
C931
500V100
L911
PL-100
98
99
100
101
102
103
104
105
106
GND
GND
NC
Heater
NC
NC
200V
200V
P904B
9P
FROM DEF
M904(P904A)
Q911
2SC5343Y
Q912
2SA1980Y
Q910
2SC5343Y
C911
16V10^
R980
470
1.7
9.1
Q907
2SA1020
1.1
1.7
C920
M0.1
R932
3.3K
R981
470
L910
PL-1.0
R939
47
R982
6.8K
R983
2.2K
R984
820G
6.1
1.5
0.9
C922
OPEN
R985
470G
R987
680G
R986
680G
C921
M0.1
R991
390G
R990
560
Q914
2SC5343Y
R988
4.7KG
4.5
3.8
Q913
2SA1980Y
R989
4.7KG
D901
OPEN
C910
OPEN
9.2
0
Q908
OPEN
GJ02
OPEN
GJ03
SHORT
GJ04
OPEN
C721
50V47^
R736
1R43
R742
1RJ2.0
D704
1SS131
R744
1.2K
R737
750
2878A
C715
122.7
Q711
2SB1569A


RV52
75
E2 V
V
E2
L/MONO
RC03
SHORT
L V2
CC03
OPEN
RC04
SHORT
R V2
R
GND
CC04
OPEN
PV03
1S6P
D/WINDOW
ONLY
GND
L S1
TV-R
GJ16 OPEN
LV03
TEM2028K
GJ17 OPEN
TV-V
CV72
16V100^
CV73
0.01
RV72
1/2R100
9
4.3
RV74
100
CV71
16V470^
RV71
75
QV13
2SC5343Y
3.6
RV73
150
QS03
2SC5343Y
RS23
100
4.0
AV-L
S-PHONO JACK
L/MONO
MONITER OUT
RC07
SHORT
CS14
10^
RS19
1K
MONI-L
3.3
RS21
2.2K
CC07
OPEN
RS15
100K
QS01
2SC2878A
0
RS17
22K
RS24
100
AV-R
RC08
SHORT
CC08
OPEN
RS20
1K
CS15
10^
QS04
2SC5343Y
MONI-R
RS22
2.2K
RS16
100K
RS18
22K
QS02
2SC2878A
B
A
C
R
QS09
2SC5343Y
RC09
SHORT
CC09
OPEN
RS39
100
Audio
OUT
RC10
SHORT
CC10
OPEN
QS08
2SC2878A
AUDIO-L
CS20
10^
RS37
1K
RS38
2.2K
PV02
0S5P
RS35
100K
RS36
22K
QS11
2SC5343Y
RS44
100
AUDIO-R
CS21
10^
RS42
1K
RS43
2.2K
RS40
100K
RS41
22K
QS10
2SC2878A
CV55
0.01
CV51
16V100^
+9V-2
RV21
3.3K
QV51
2SC5343Y
CV52
16V10^
RV34
100
Y1
Y
RV22
10K
RV24
470
GND
GJ33
OPEN
RV19
OPEN
RV66
75
PB
CV53
OPEN
RV27
OPEN
QV52
OPEN
RV67
75
CB
PR
RV20
OPEN
RV28
OPEN
GJ32
SHORT
PV01
1S6P
RV36
OPEN
CV54
OPEN
RV51
OPEN
RV57
OPEN
RV37
OPEN
CR
GJ31
SHORT
RV59
OPEN
G
H
I
J
K
L
1
2
3
4



/WINDOW
ONLY
L S1
CS05 2.2^
CV04
RS07 5.6K
GJ19 OPEN
CV03 OPEN
DV03 OPEN
LV06 OPEN
GJ18 OPEN
CS03 OPEN
RS06 OPEN
TV-V
CV02 0.1^
RS04 5.6K
CS02 2.2^
RS03 5.6K
CS01 2.2^
PIP
TV
V
R
L
C IN
R OUT1
V OUT1
L OUT1
Y OUT
05
C OUT
5.2
4.1
3.9
RS13 100
RS14 100
AV-R
AV-L
V-AV
C-AV
GND
MONI-V
TV-R
TV-L
+9V-2
QS07
RN2004
RS31 10K
RS32 100K
CS19 0.47^
RV61 10K
RV16 OPEN
GJ34 SHORT
QV10 OPEN
RV14 OPEN
LV05 TEM2028K
GJ24 OPEN
GJ25 OPEN
Y-AV
RV64 4.7K
CV64 50V1^
SYNC AV1
A-MUTE
SGA
SGV
(21)
(22) GND
(23) A MUTE
(24) SGA
(25) GND
(26) SGV
(27) PIP VOL
(28) AV-L
(29) AV-R
(30) GND
(31) TV-V
(32) GND
(33) TV-L
(34) TV-R
(35) GND
(36) TV2-V
(37) TV2-L
(38) GND
(39) 9V-2
(40) 9V-2
(41) GND
(42) GND
(43) GND
(44) GND
(45) GND
(46) NC
(47) NC
(48) GND
(49) NC
(50) GND
(51) R-Y
(52) GND
(53) B-Y
(54) GND
(55) Y
(56) GND
CR
CB
Y1
PV11B
OPEN
9V-2
NC
A MUTE
PIP AUDIO
GND
NOT-USE
4
5
6
7
8



21 SYNC AV1
D
22 GND
MUTE
23 A MUTE
SGA
24 SGA
ND
25 GND
26 SGV
27 PIP VOL
28 AV-L
29 AV-R
30 GND
31 TV-V
32 GND
33 TV-L
34 TV-R
35 GND
36 TV2-V
37 TV2-L
38 GND
39 9V-2
40 9V-2
41 GND
42 GND
43 GND
44 GND
45 GND
46 NC
47 NC
48 GND
49 NC
50 GND
51 R-Y
52 GND
53 B-Y
54 GND
55 Y
56 GND
to SIGNAL
V11B
PEN
-2
UTE
AUDIO
GND
1
2
3
4
5
NOT-USE
FROM BEP
M902(P902A)
VM 153
NC 152
GND 151
P902C
3P
VM
8.5
11.0
Q705
2SC5343Y
Q706
2SC5343Y
7.9
R718
2.2K
C704
M8200
1.5
9.8
0.8
R722
1/2R470
R723
100
0.8
Q707
2SC752GTMY
6.0
0.1
C722
OPEN
R724
150
R720
1K
R719
100
C726
1000P
2SC5343Y
11.0
6.5
5.9
R709
56K
Q709
2SC2878A
11.0
5.5
R732
33
C715
500V4700P
C714
50VFJ100
R733
68K
122.3
122.7
Q711
2SB15
234
64.3
L704
TEM2011
R738
1K
R735
68K
D715
1SS131
D721
1SS131
R730
1/2RJ10
R716
27K
R717
33K
R715
27K
C705
50VFJ0.01
Q710
2SA1980Y
5.5
5.2
0
R702
1/2R220
R734
33
C717
500V4700P
C716
50PJ100
R739
750
R745
1.2K
D705
1SS131
L705
TEM2011
GJ05
SHOR
64.3
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1R43
Q712
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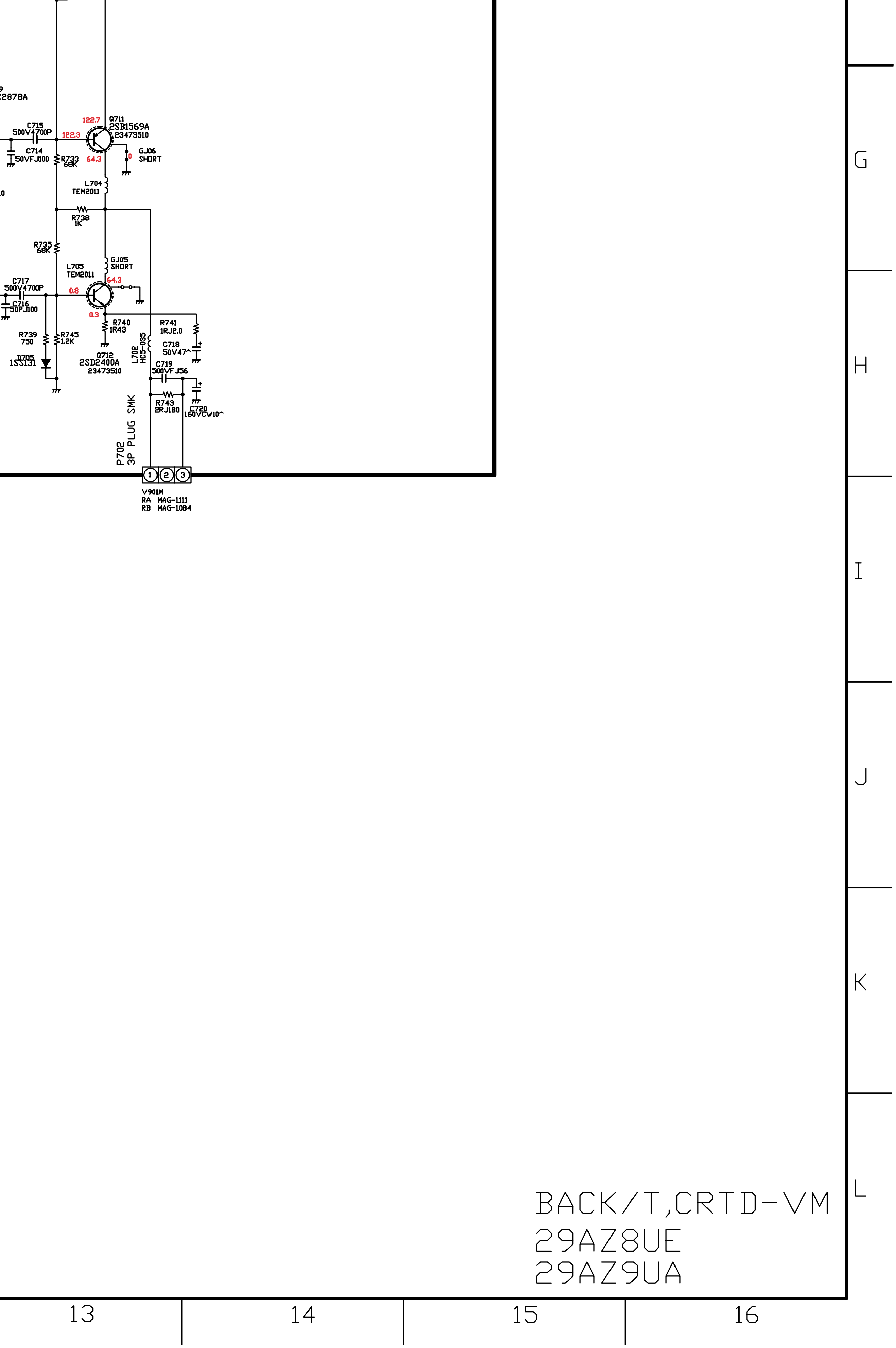
23473510
P702
9
10
11
12
13


9
C2878A
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C714
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122.7
122.3
Q711
2SB1569A
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R733
68K
64.3
0
GJ06
SHORT
10
L704
TEM2011
R738
1K
R735
68K
GJ05
SHORT
L705
TEM2011
C717
500V4700P
C716
50PJ100
0.8
64.3
0.3
R740
1R43
R741
1RJ2.0
R739
750
R745
1.2K
D705
1SS131
Q712
2SD2400A
23473510
L702
HC5-035
C718
50V47^
C719
500VFJ56
R743
2RJ180
C720
160VCW10^
P702
3P PLUG SMK
1
2
3
V901M
RA MAG-1111
RB MAG-1084
G
H
I
J
K
L
13
14
15
16

BACK/T,CRTD-VM
29AZ8UE
29AZ9UA